

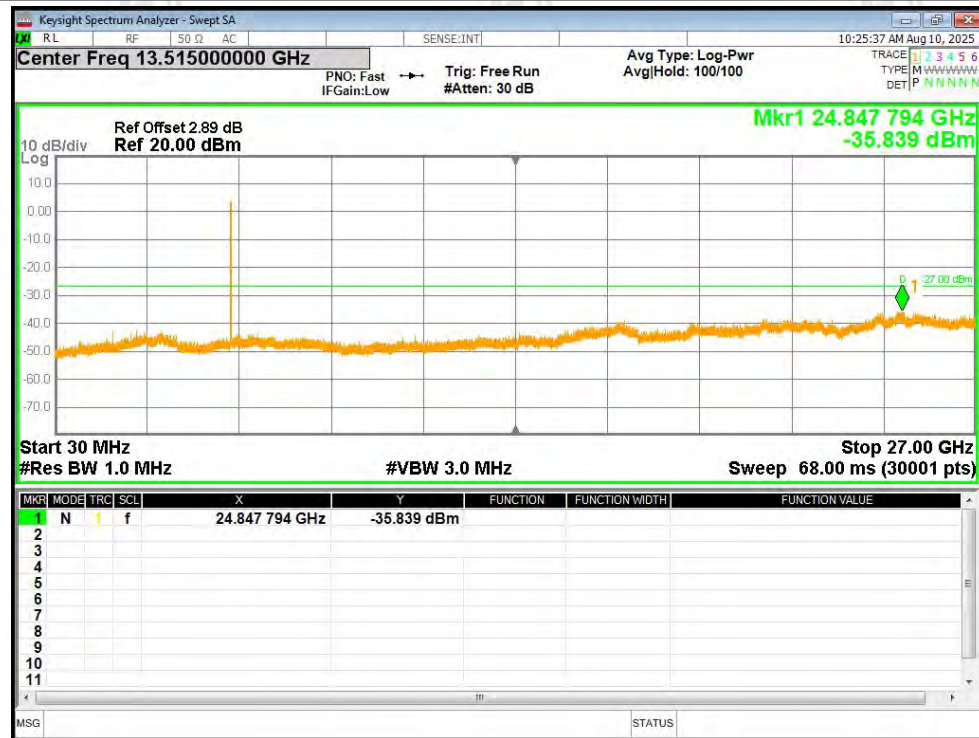


Conducted RF Spurious Emission

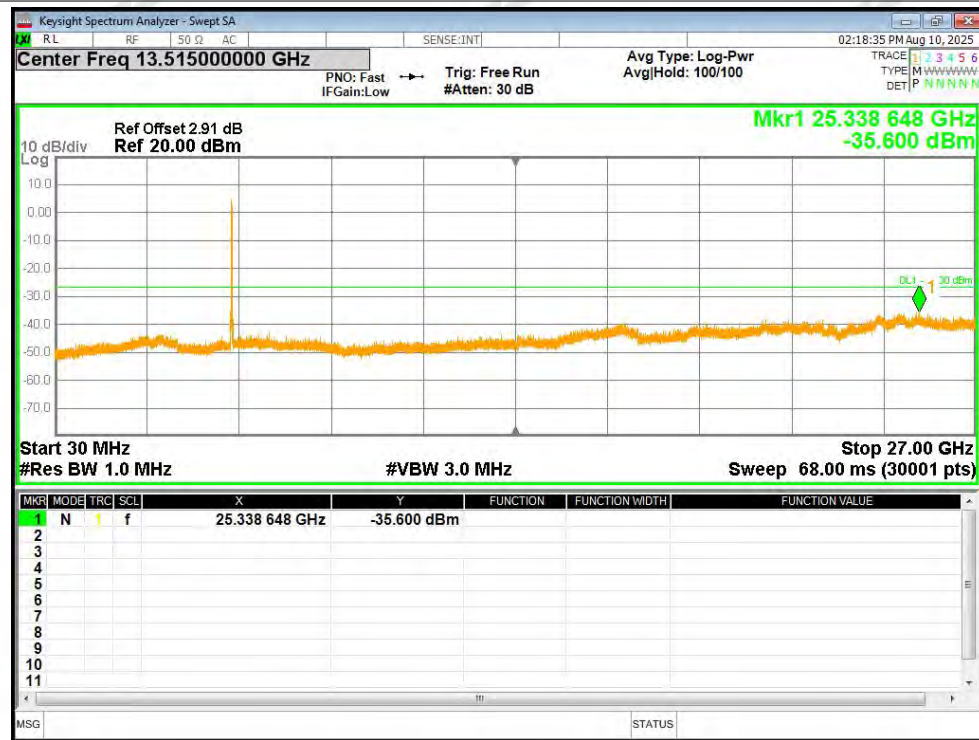
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	ANT Gain (dBi)	EIRP Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-35.83	1.56	-34.27	-27	Pass
NVNT	a	5200	Ant1	-35.6	1.56	-34.04	-27	Pass
NVNT	a	5240	Ant1	-36.32	1.56	-34.76	-27	Pass
NVNT	n20	5180	Ant1	-35.22	1.56	-33.66	-27	Pass
NVNT	n20	5200	Ant1	-35.87	1.56	-34.31	-27	Pass
NVNT	n20	5240	Ant1	-35.55	1.56	-33.99	-27	Pass
NVNT	n40	5190	Ant1	-35.38	1.56	-33.82	-27	Pass
NVNT	n40	5230	Ant1	-35.95	1.56	-34.39	-27	Pass
NVNT	ac20	5180	Ant1	-36.13	1.56	-34.57	-27	Pass
NVNT	ac20	5200	Ant1	-36.18	1.56	-34.62	-27	Pass
NVNT	ac20	5240	Ant1	-36.06	1.56	-34.5	-27	Pass
NVNT	ac40	5190	Ant1	-35.76	1.56	-34.2	-27	Pass
NVNT	ac40	5230	Ant1	-35.93	1.56	-34.37	-27	Pass

Test Graphs

Tx. Spurious NVNT a 5180MHz Ant1 Emission



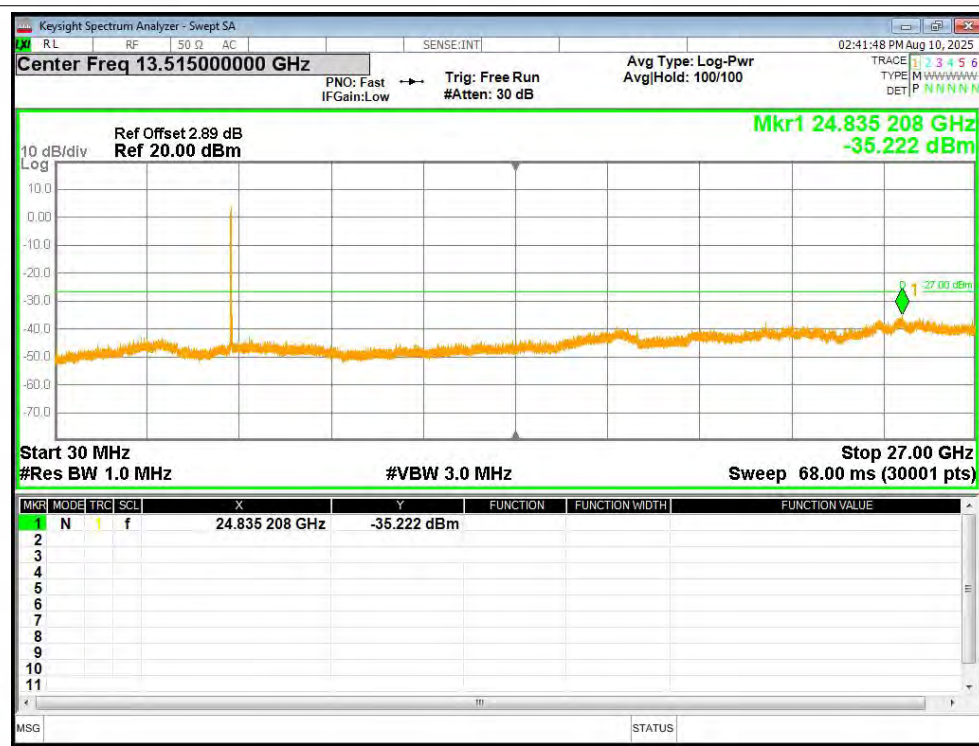
Tx. Spurious NVNT a 5200MHz Ant1 Emission



Tx. Spurious NVNT a 5240MHz Ant1 Emission



Tx. Spurious NVNT n20 5180MHz Ant1 Emission



Tx. Spurious NVNT n20 5200MHz Ant1 Emission



Tx. Spurious NVNT n20 5240MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission



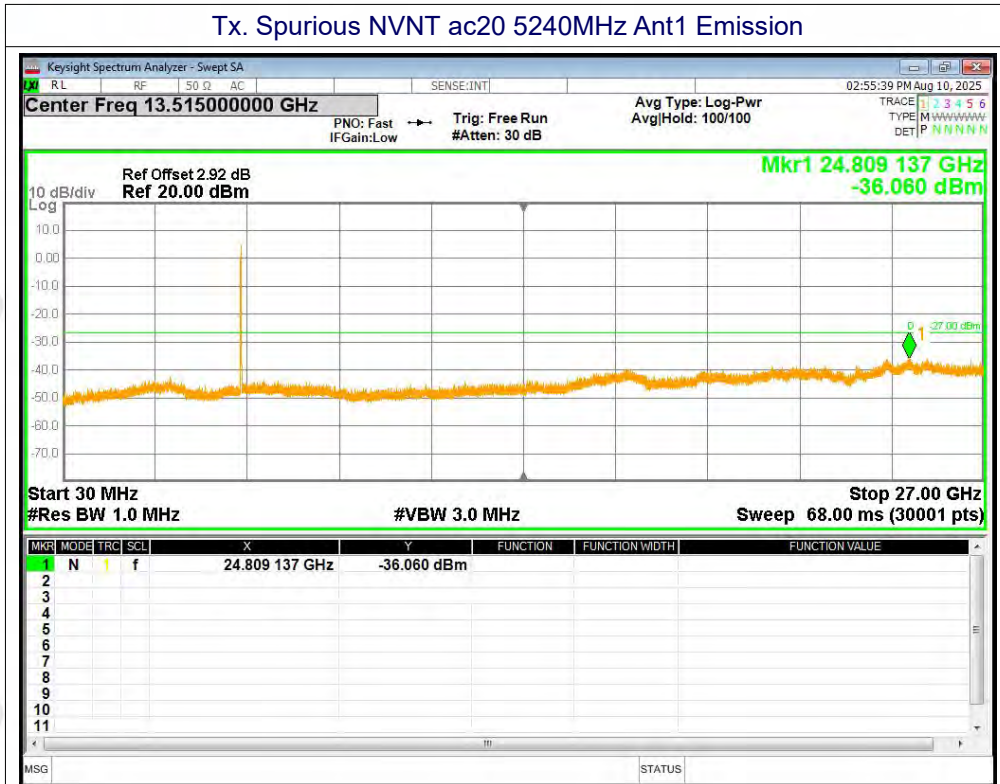
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



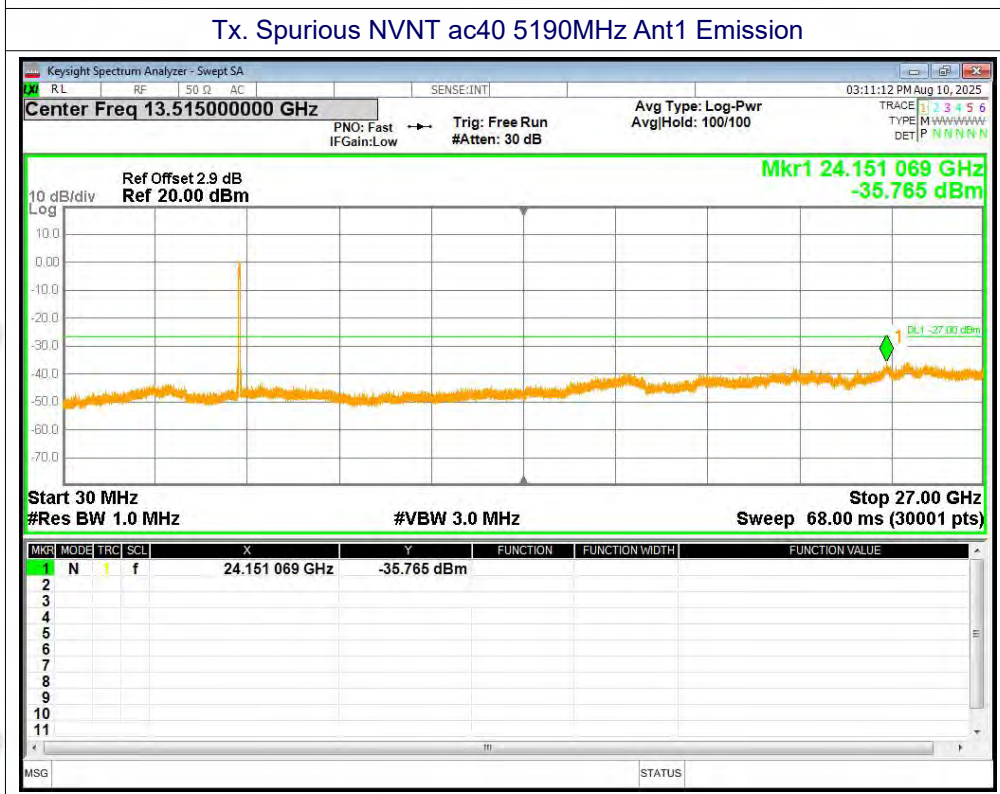
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission

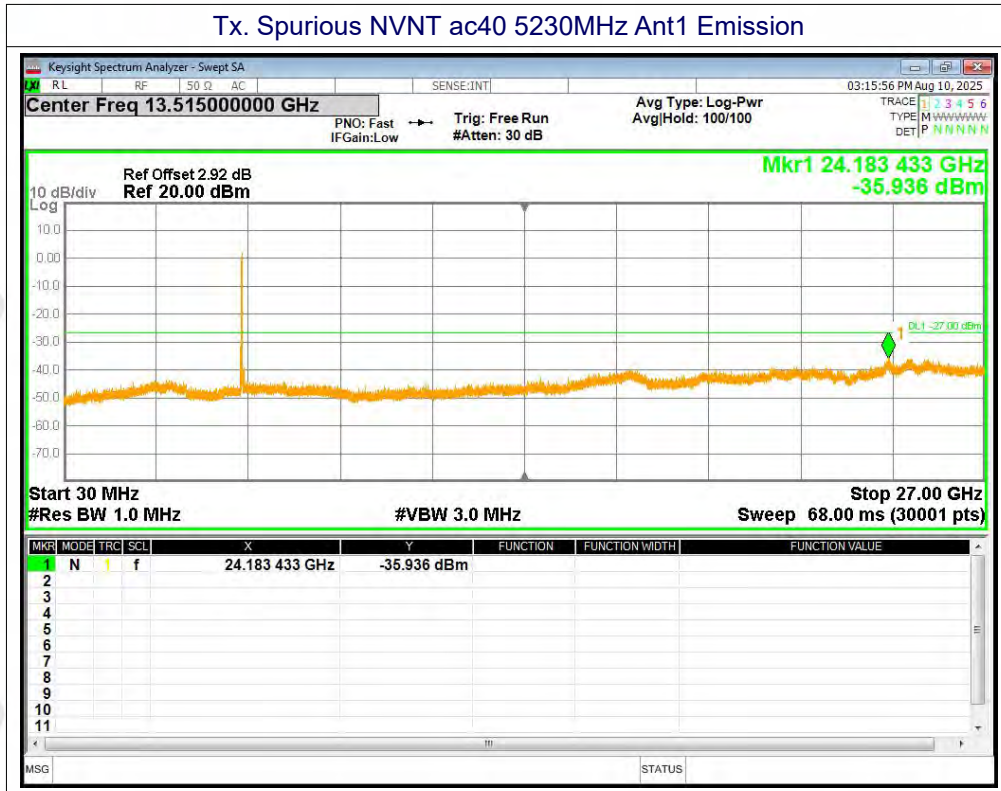


Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



Tx. Spurious NVNT ac40 5190MHz Ant1 Emission





5.3G WIFI DATA

Table of Contents

Duty Cycle 66

Maximum Conducted Output Power 74

-26dB Bandwidth 82

Occupied Channel Bandwidth 90

Maximum Power Spectral Density Level 98

Band Edge 106

Frequency Stability 112

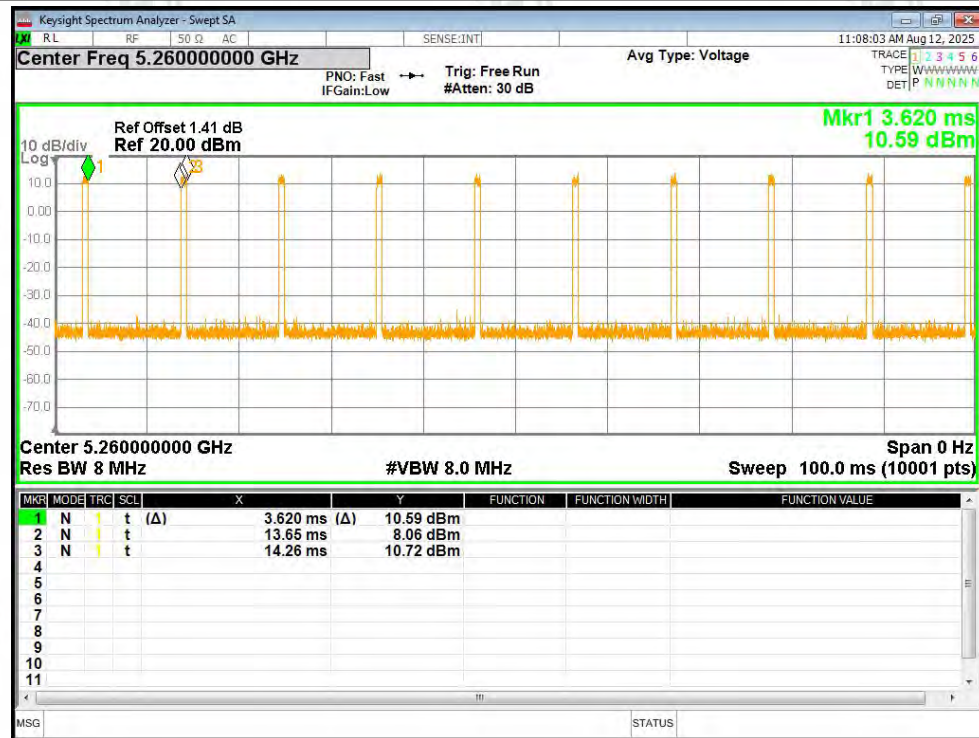
Conducted RF Spurious Emission 120

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	5.73	12.42	1.64
NVNT	a	5280	Ant1	5.74	12.41	1.64
NVNT	a	5320	Ant1	5.83	12.34	1.61
NVNT	n20	5260	Ant1	5.02	12.99	1.89
NVNT	n20	5280	Ant1	5.11	12.92	1.85
NVNT	n20	5320	Ant1	5.11	12.92	1.85
NVNT	n40	5270	Ant1	2.72	15.65	3.57
NVNT	n40	5310	Ant1	2.72	15.65	3.57
NVNT	ac20	5260	Ant1	4.39	13.58	2.17
NVNT	ac20	5280	Ant1	4.3	13.67	2.22
NVNT	ac20	5320	Ant1	4.39	13.58	2.17
NVNT	ac40	5270	Ant1	2.15	16.68	4.55
NVNT	ac40	5310	Ant1	2.15	16.68	4.55

Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



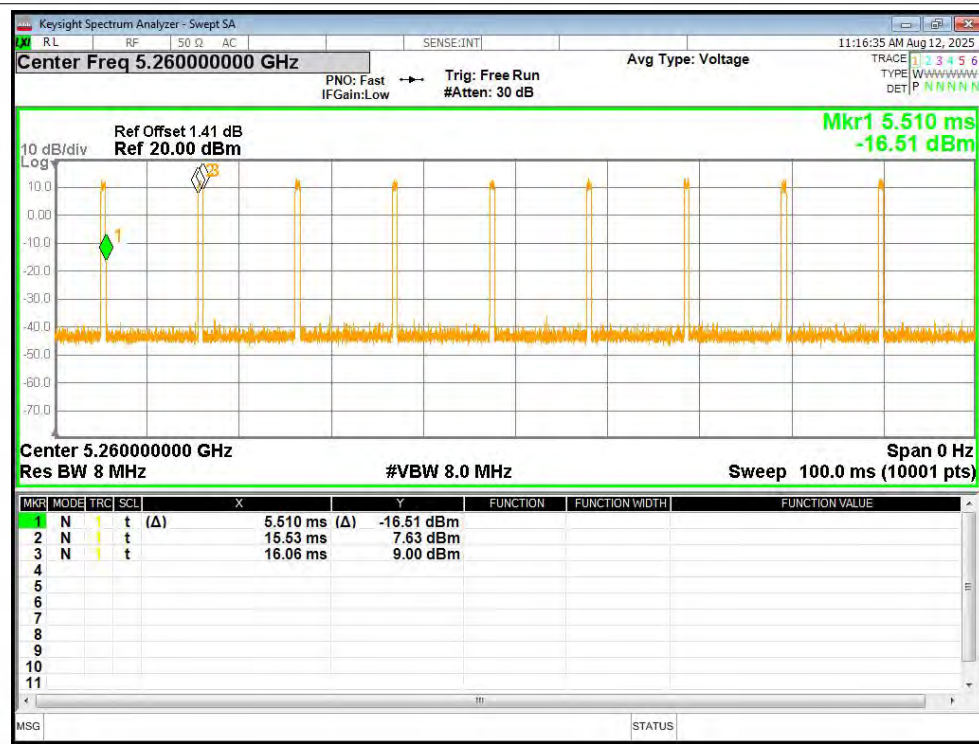
Duty Cycle NVNT a 5280MHz Ant1



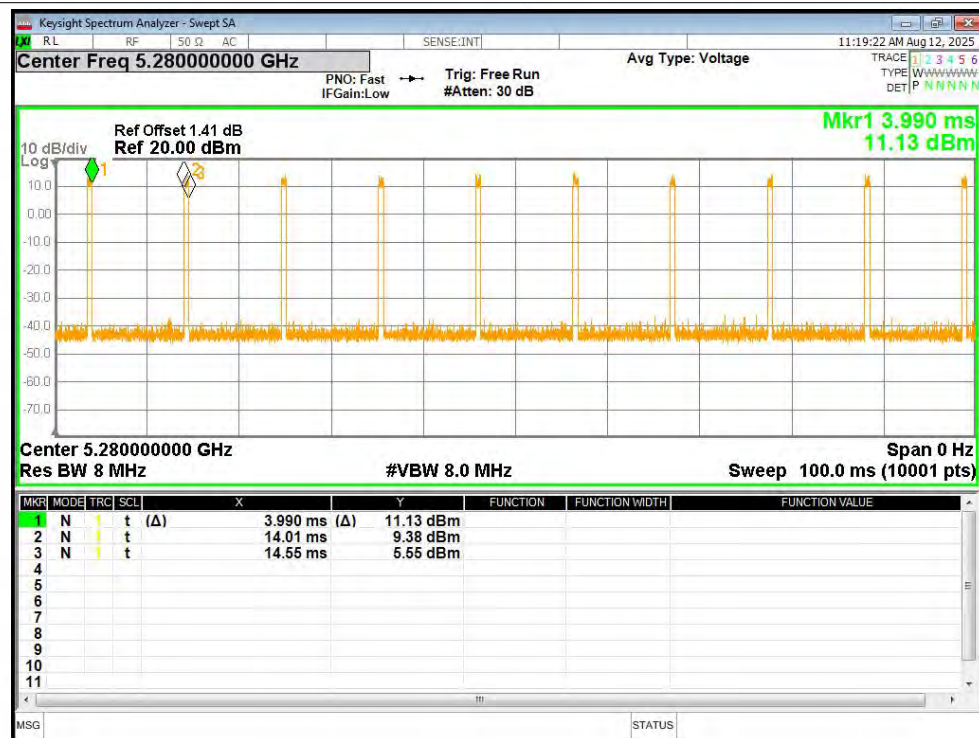
Duty Cycle NVNT a 5320MHz Ant1



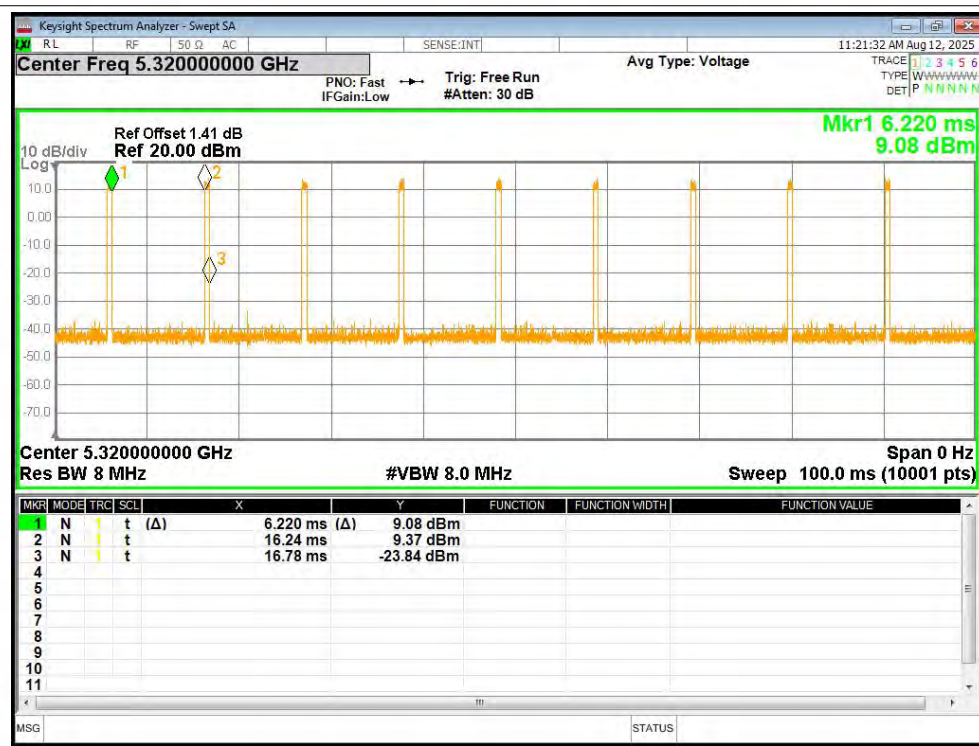
Duty Cycle NVNT n20 5260MHz Ant1



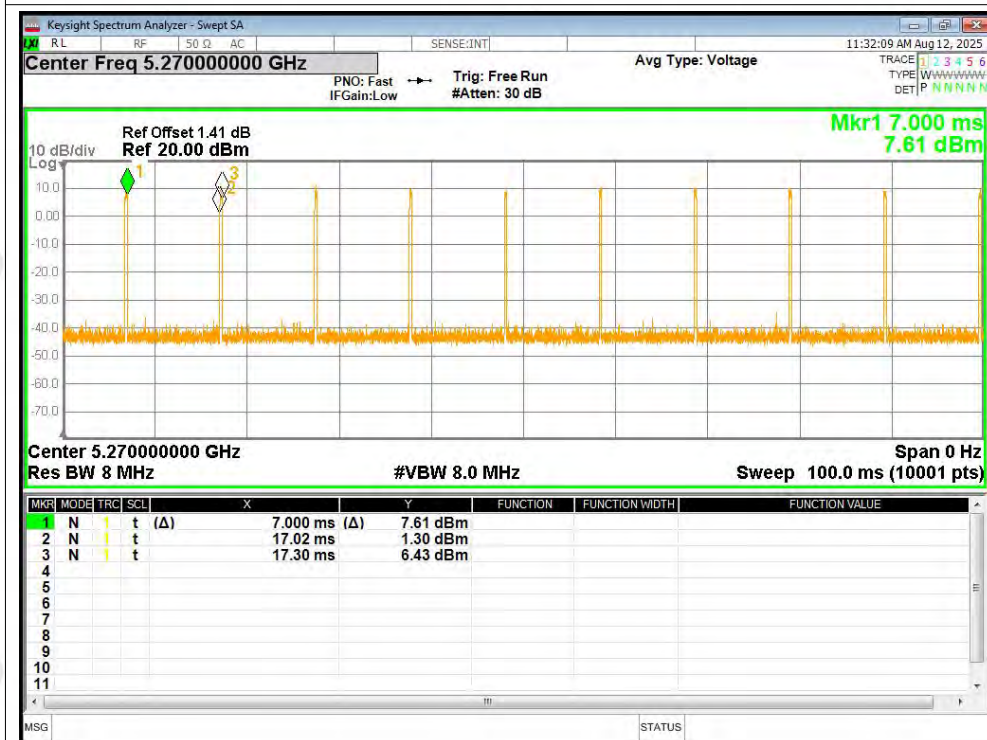
Duty Cycle NVNT n20 5280MHz Ant1



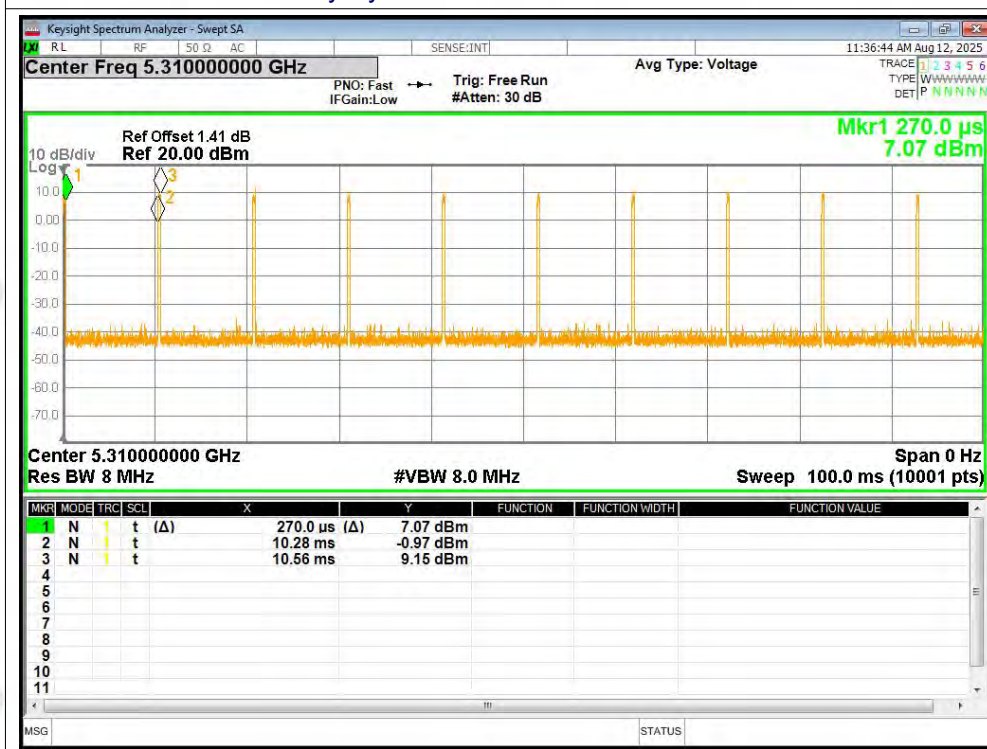
Duty Cycle NVNT n20 5320MHz Ant1



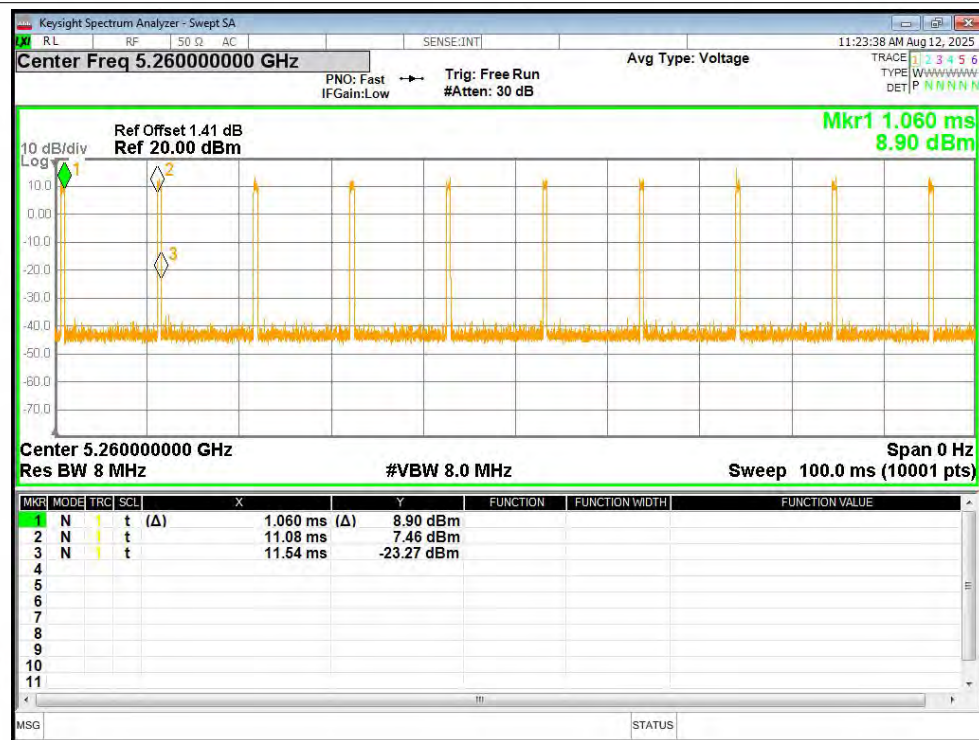
Duty Cycle NVNT n40 5270MHz Ant1



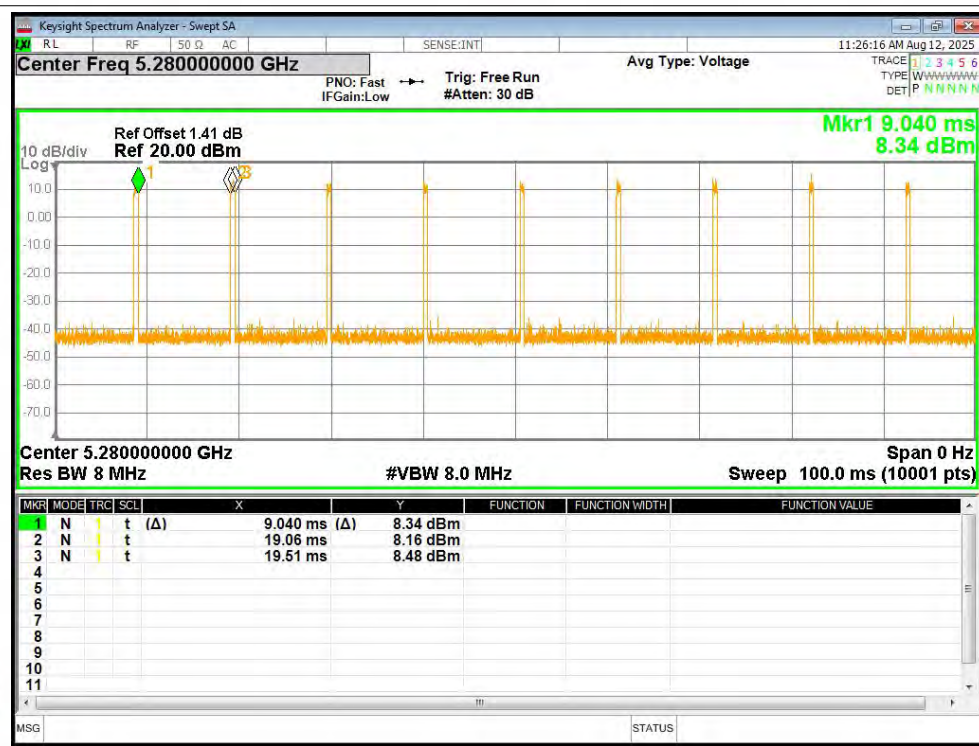
Duty Cycle NVNT n40 5310MHz Ant1



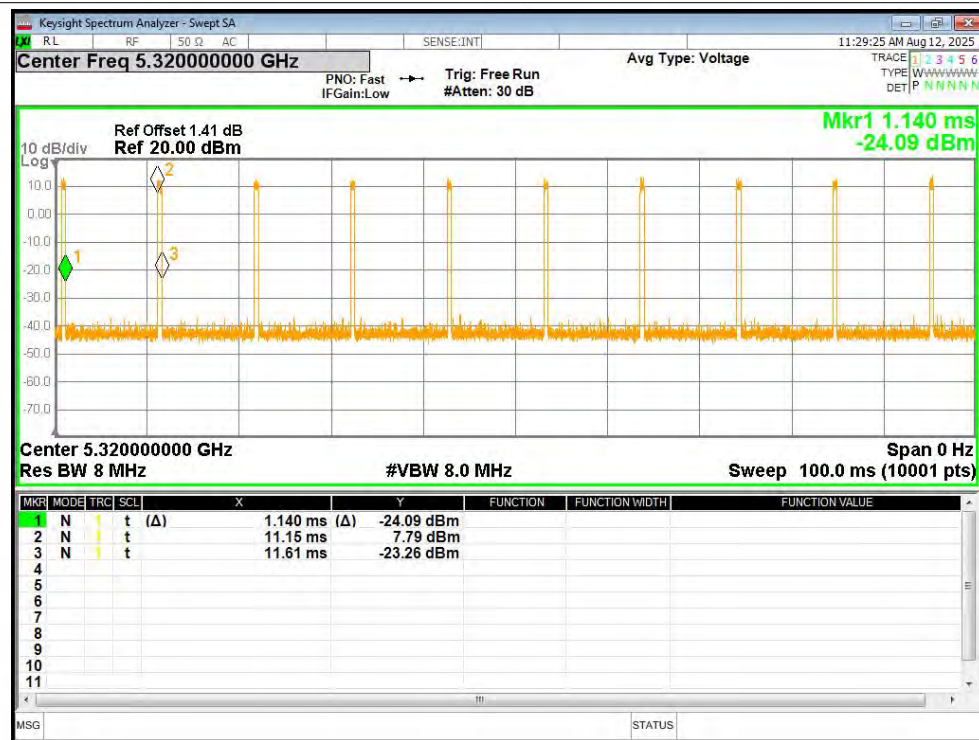
Duty Cycle NVNT ac20 5260MHz Ant1



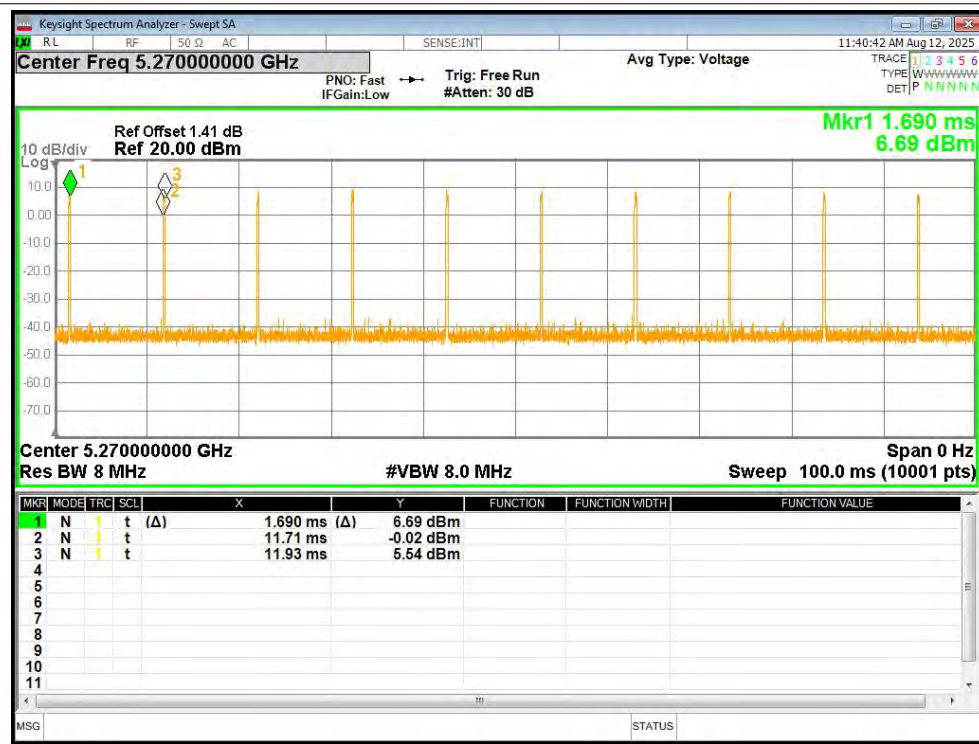
Duty Cycle NVNT ac20 5280MHz Ant1

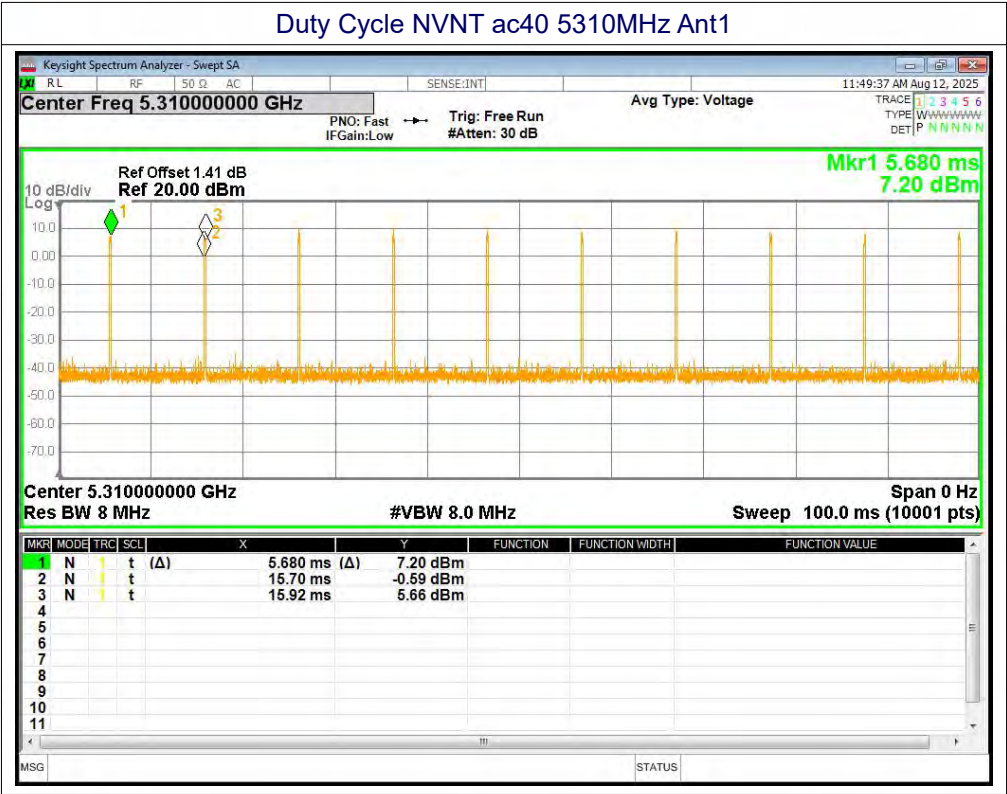


Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1





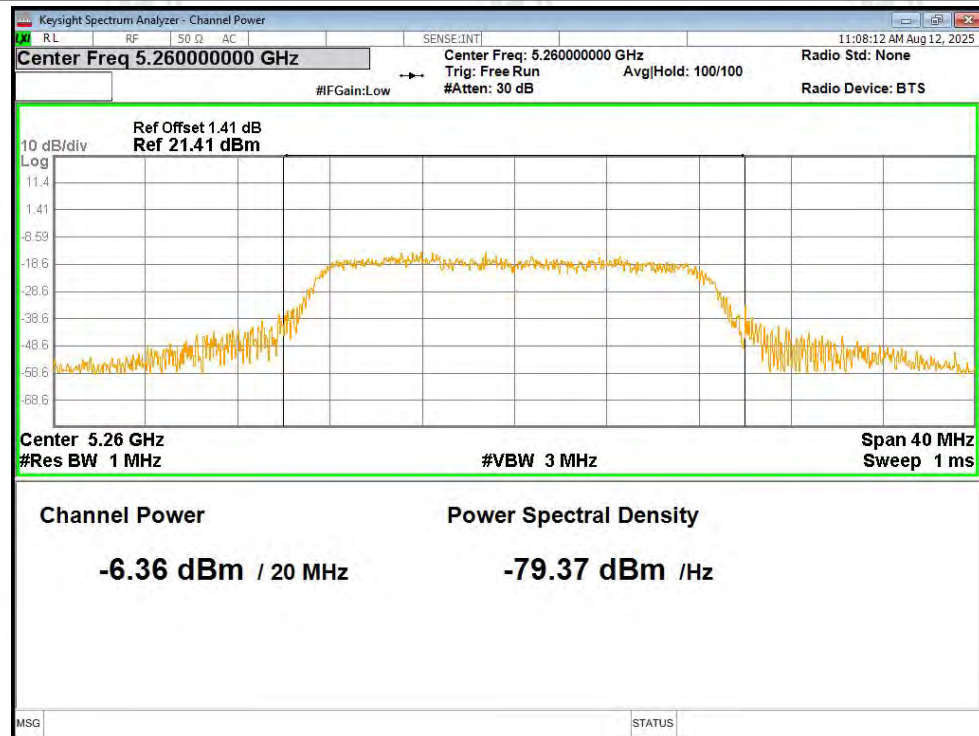


Maximum Conducted Output Power

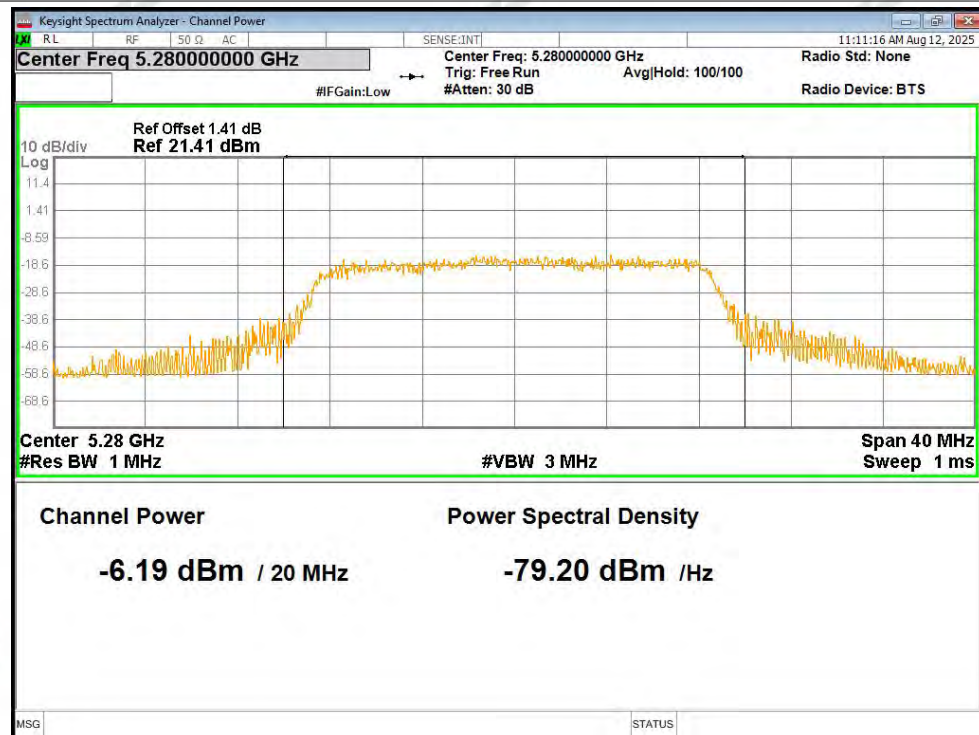
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-6.36	12.42	6.06	24	Pass
NVNT	a	5280	Ant1	-6.19	12.41	6.22	24	Pass
NVNT	a	5320	Ant1	-7.35	12.34	4.99	24	Pass
NVNT	n20	5260	Ant1	-5.54	12.99	7.45	24	Pass
NVNT	n20	5280	Ant1	-6.14	12.92	6.78	24	Pass
NVNT	n20	5320	Ant1	-8.5	12.92	4.42	24	Pass
NVNT	n40	5270	Ant1	-8.31	15.65	7.34	24	Pass
NVNT	n40	5310	Ant1	-9.31	15.65	6.34	24	Pass
NVNT	ac20	5260	Ant1	-8.38	13.58	5.2	24	Pass
NVNT	ac20	5280	Ant1	-7.31	13.67	6.36	24	Pass
NVNT	ac20	5320	Ant1	-6.32	13.58	7.26	24	Pass
NVNT	ac40	5270	Ant1	-10.82	16.68	5.86	24	Pass
NVNT	ac40	5310	Ant1	-9	16.54	7.54	24	Pass

Test Graphs

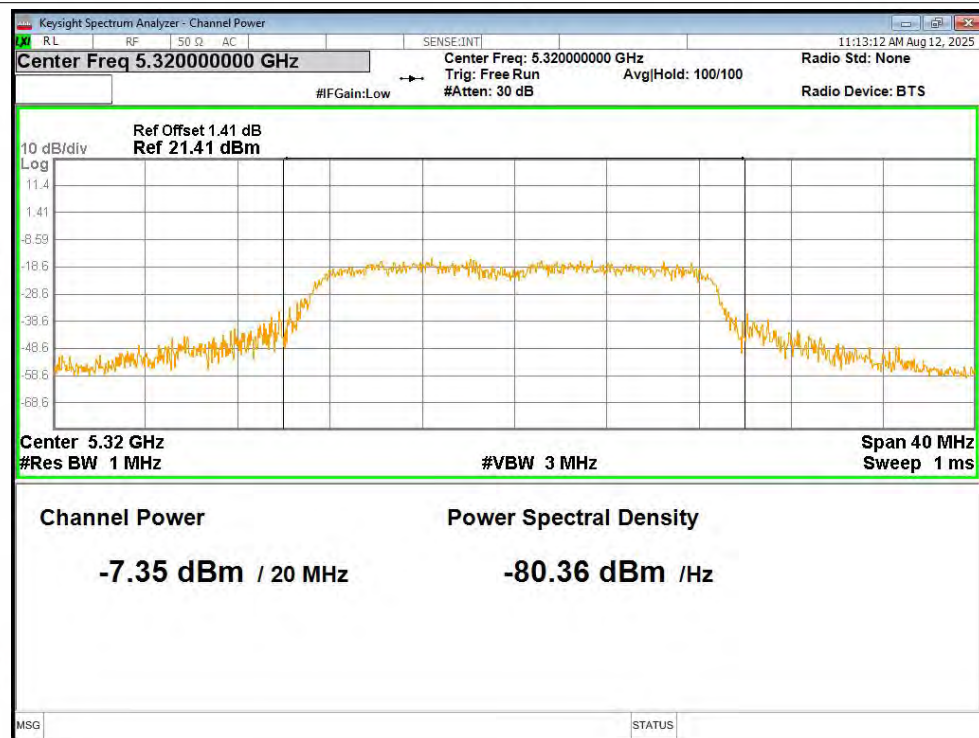
Power NVNT a 5260MHz Ant1



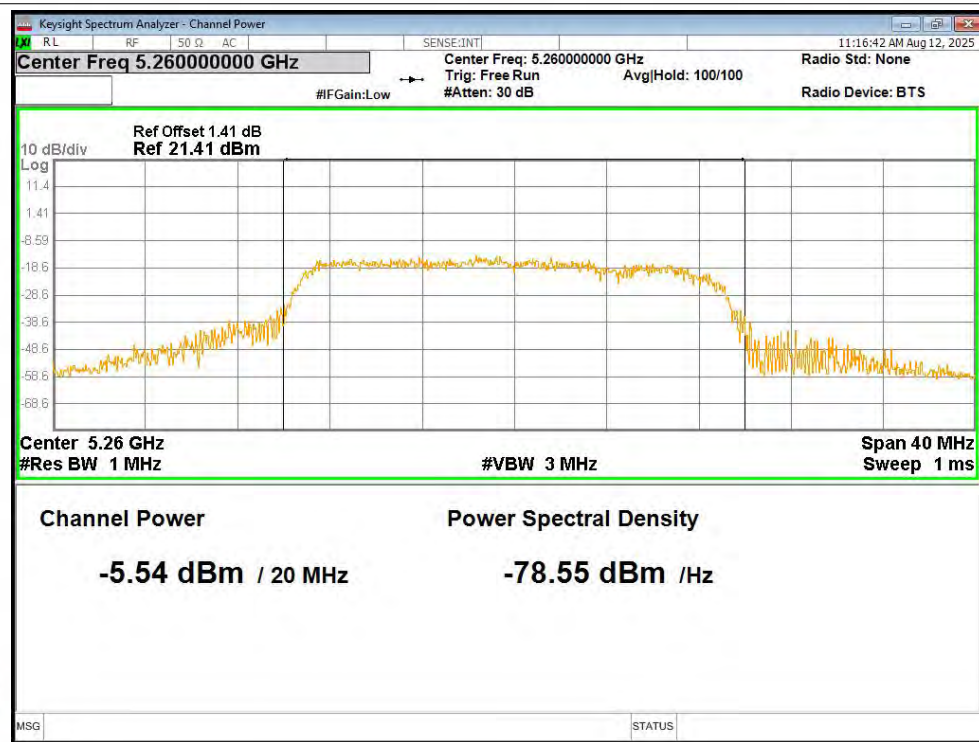
Power NVNT a 5280MHz Ant1



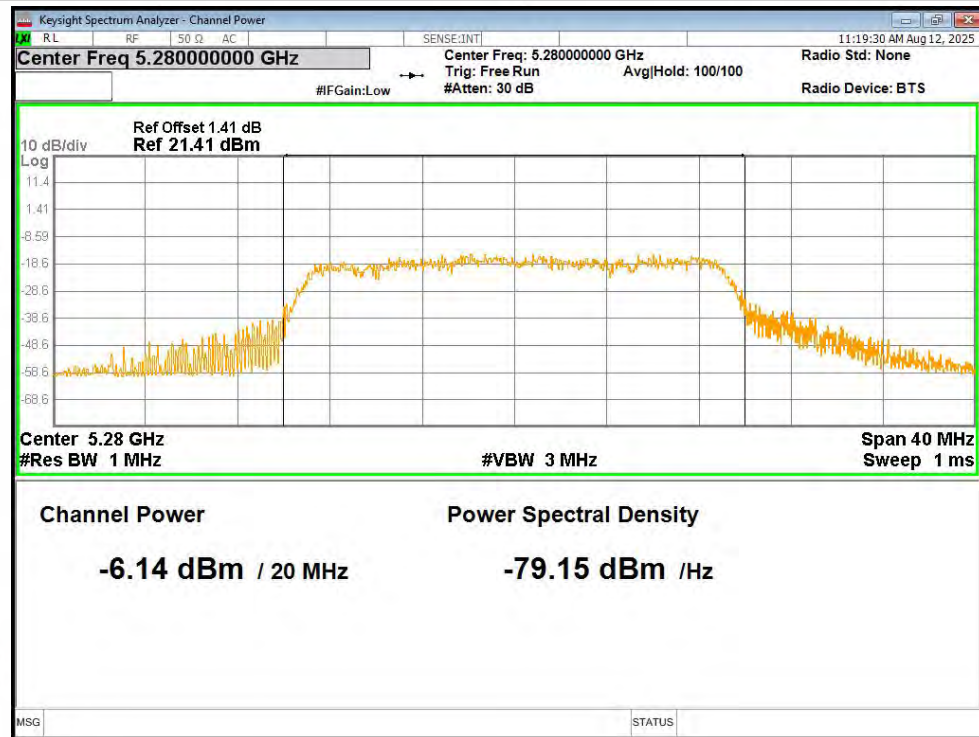
Power NVNT a 5320MHz Ant1



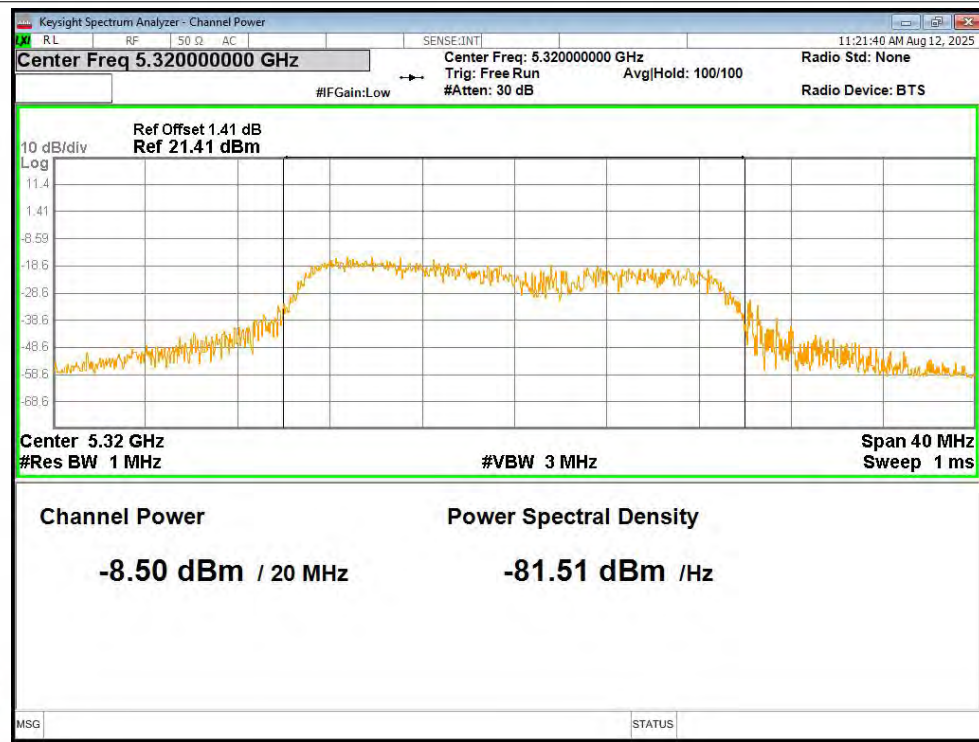
Power NVNT n20 5260MHz Ant1



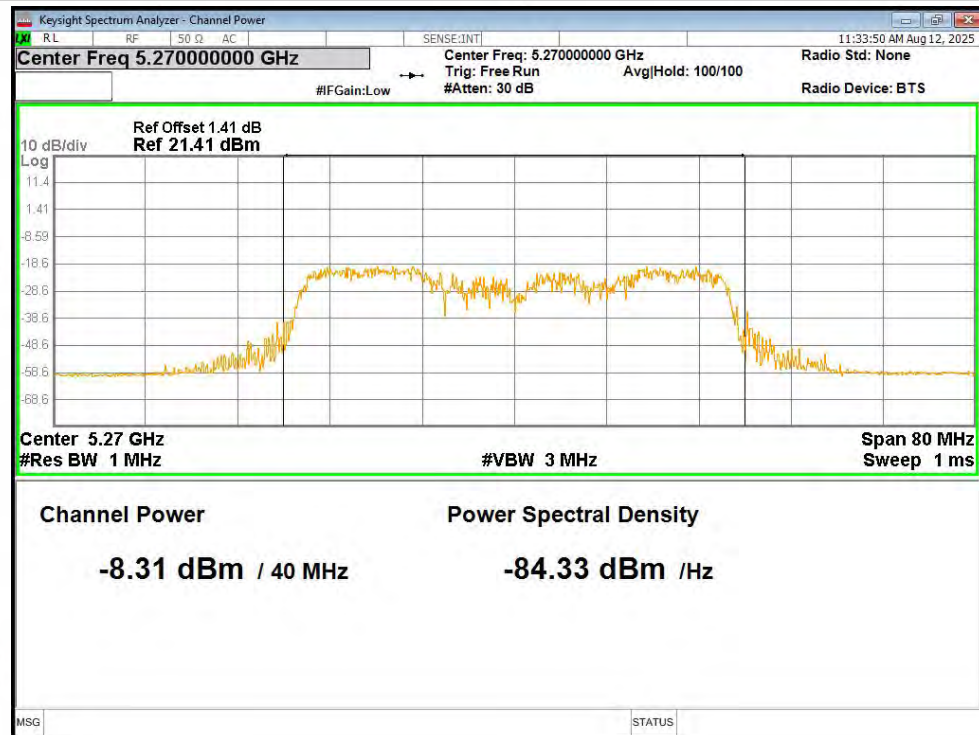
Power NVNT n20 5280MHz Ant1



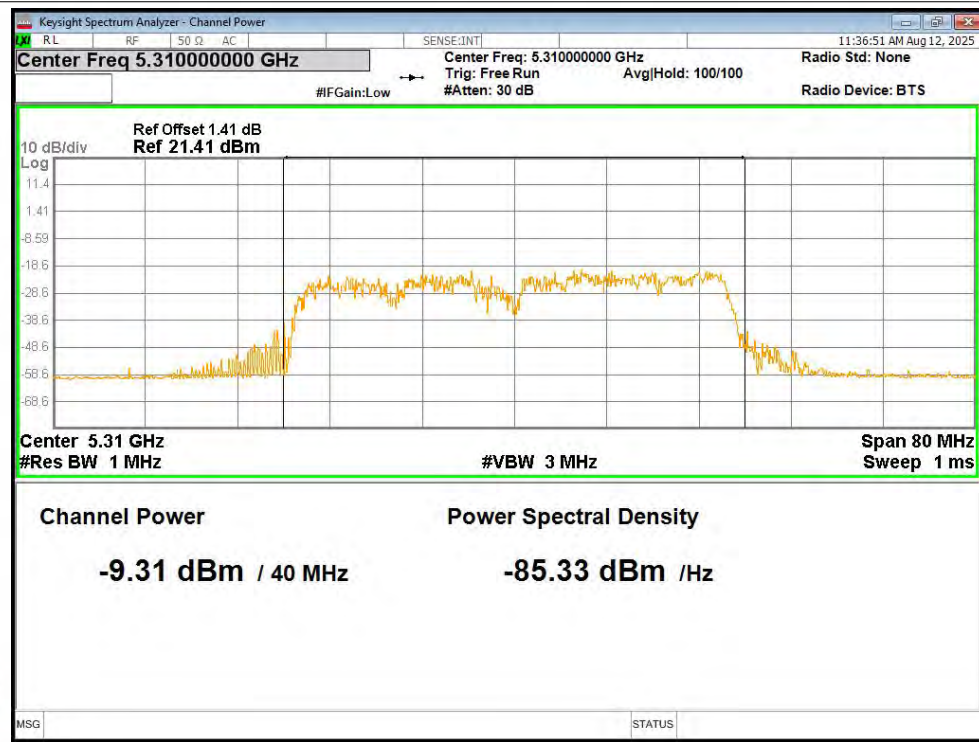
Power NVNT n20 5320MHz Ant1



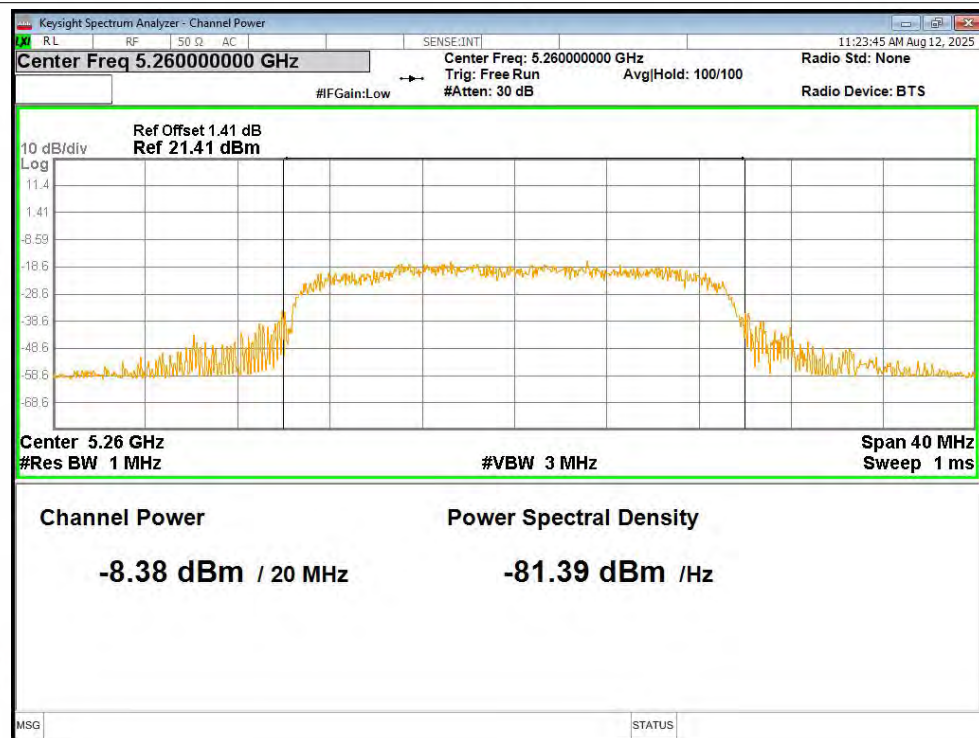
Power NVNT n40 5270MHz Ant1



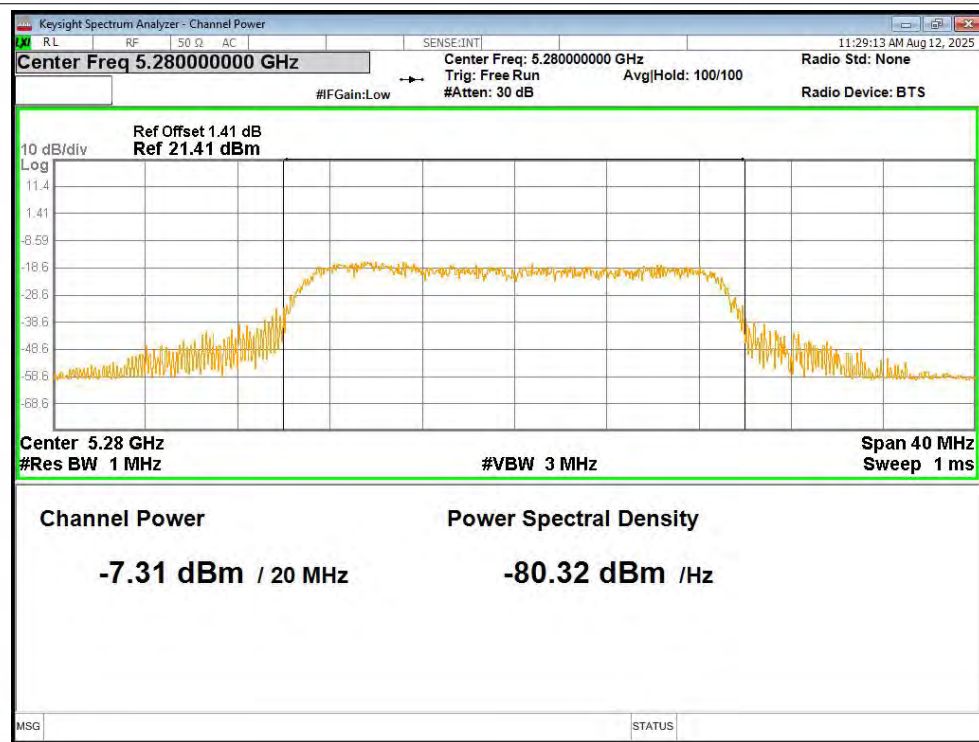
Power NVNT n40 5310MHz Ant1



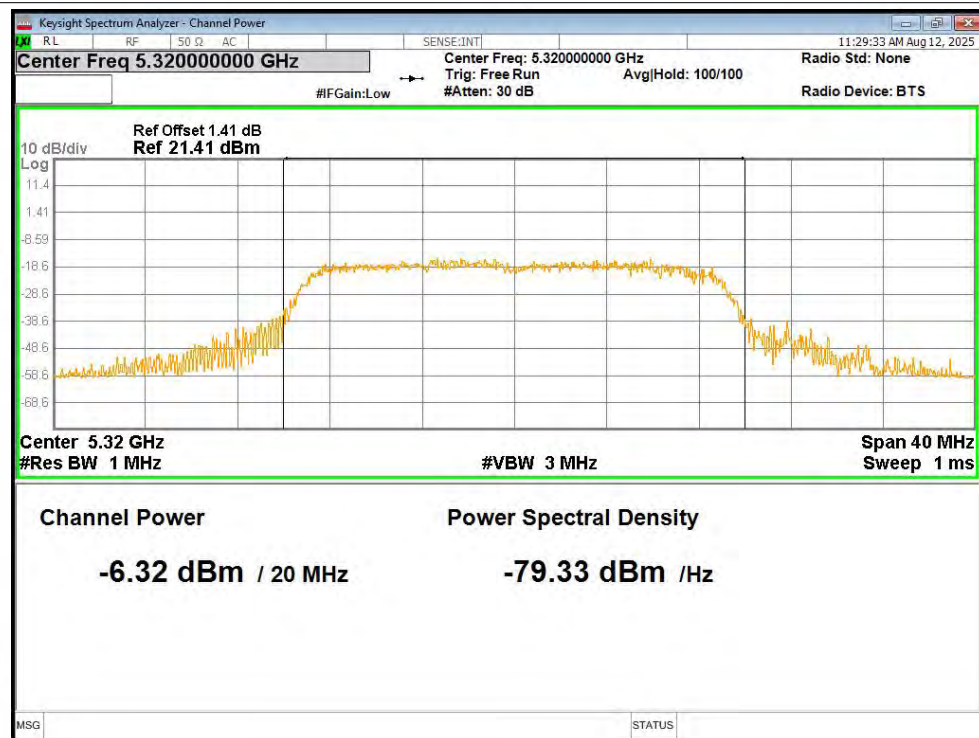
Power NVNT ac20 5260MHz Ant1



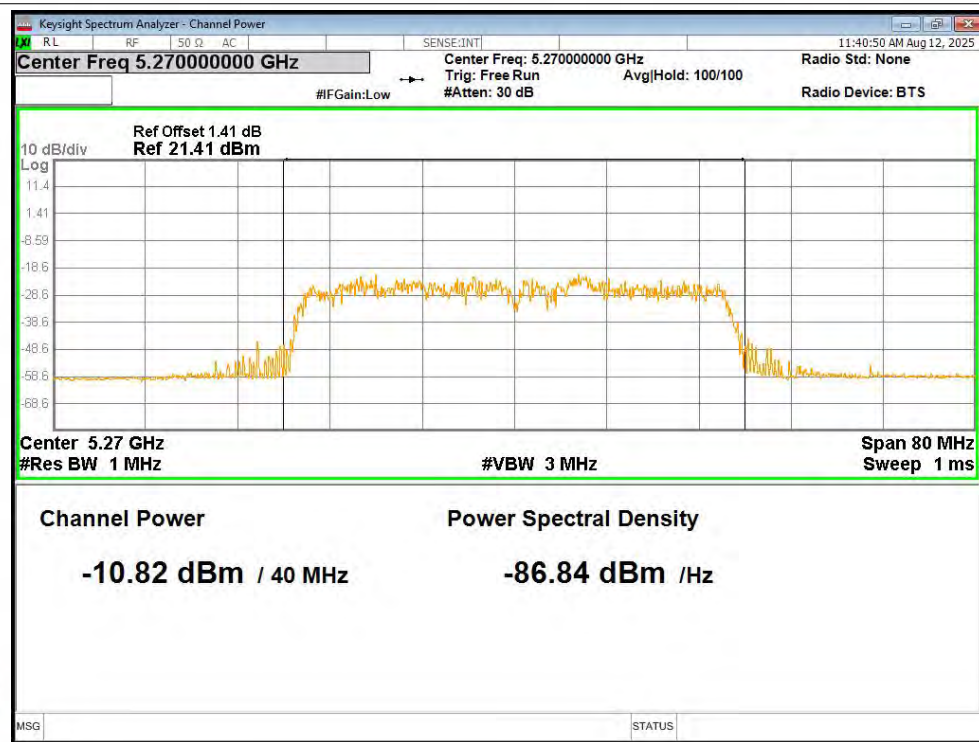
Power NVNT ac20 5280MHz Ant1

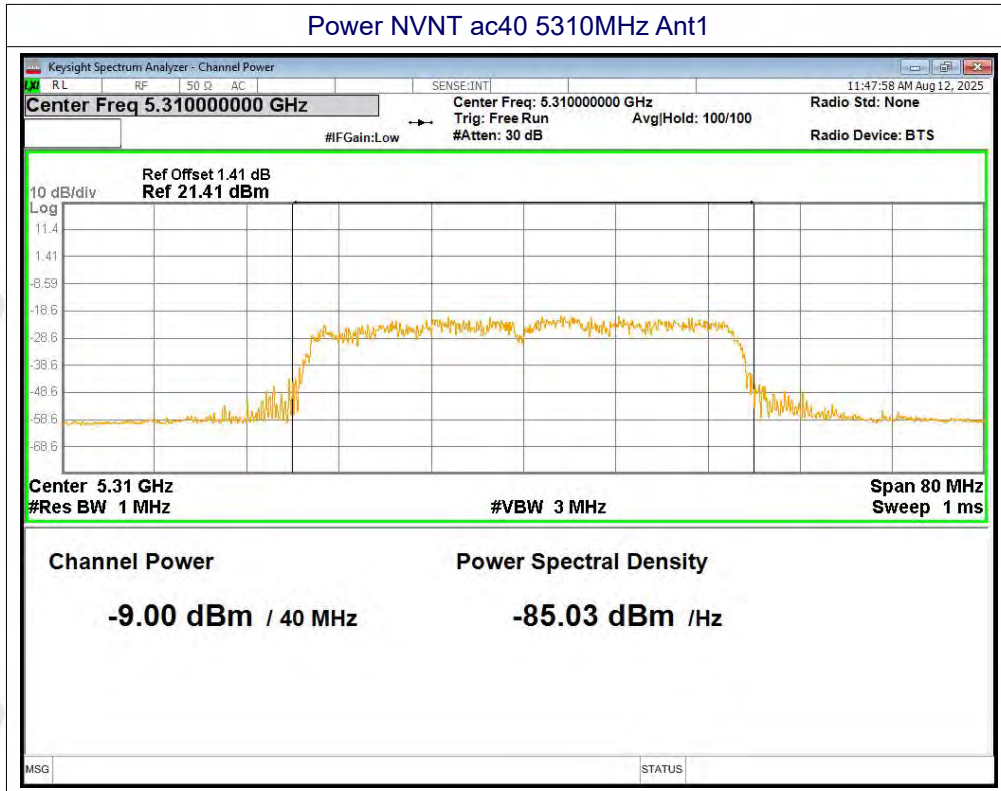


Power NVNT ac20 5320MHz Ant1



Power NVNT ac40 5270MHz Ant1



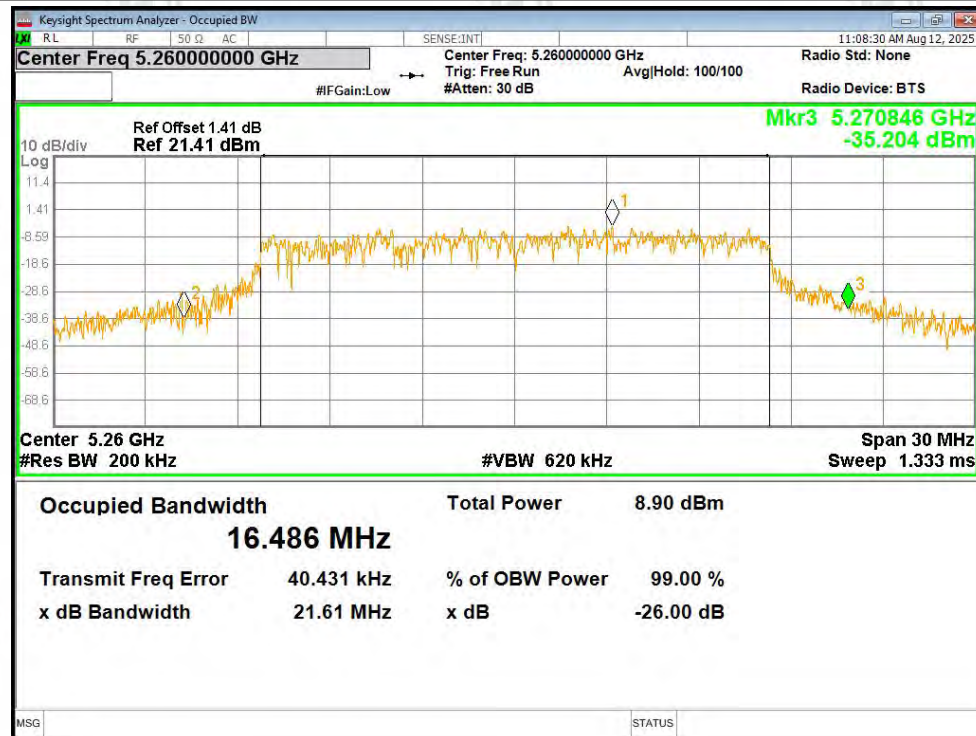


**-26dB Bandwidth**

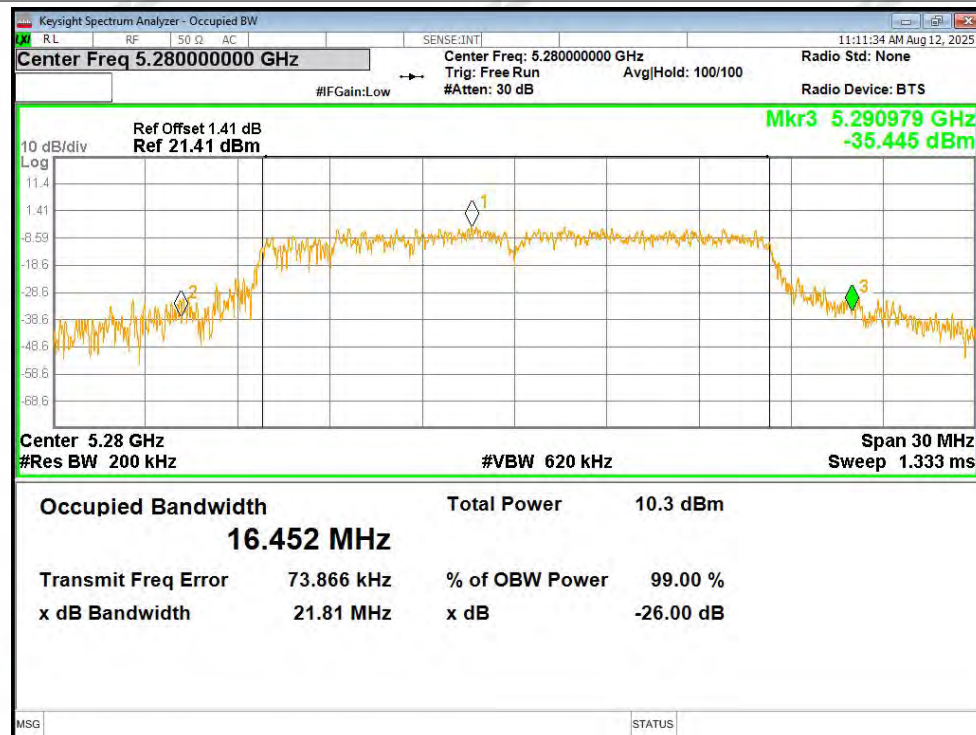
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	21.612	Pass
NVNT	a	5280	Ant1	21.811	Pass
NVNT	a	5320	Ant1	20.999	Pass
NVNT	n20	5260	Ant1	22.171	Pass
NVNT	n20	5280	Ant1	22.674	Pass
NVNT	n20	5320	Ant1	22.671	Pass
NVNT	n40	5270	Ant1	44.103	Pass
NVNT	n40	5310	Ant1	43.162	Pass
NVNT	ac20	5260	Ant1	22.128	Pass
NVNT	ac20	5280	Ant1	21.407	Pass
NVNT	ac20	5320	Ant1	22.35	Pass
NVNT	ac40	5270	Ant1	42.815	Pass
NVNT	ac40	5310	Ant1	43.469	Pass

Test Graphs

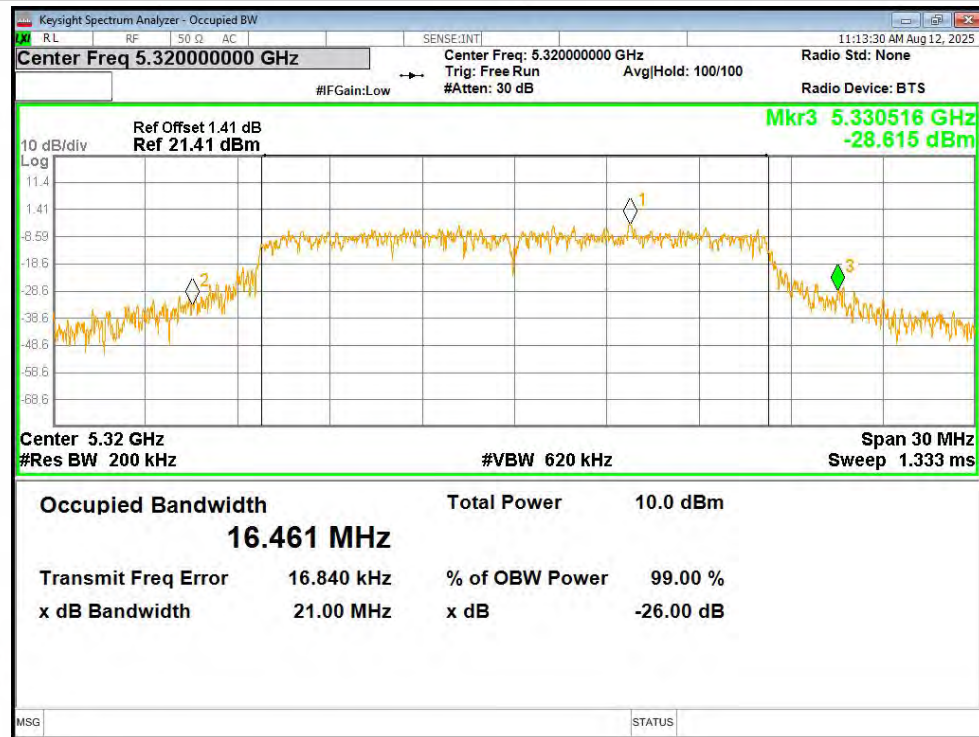
-26dB Bandwidth NVNT a 5260MHz Ant1



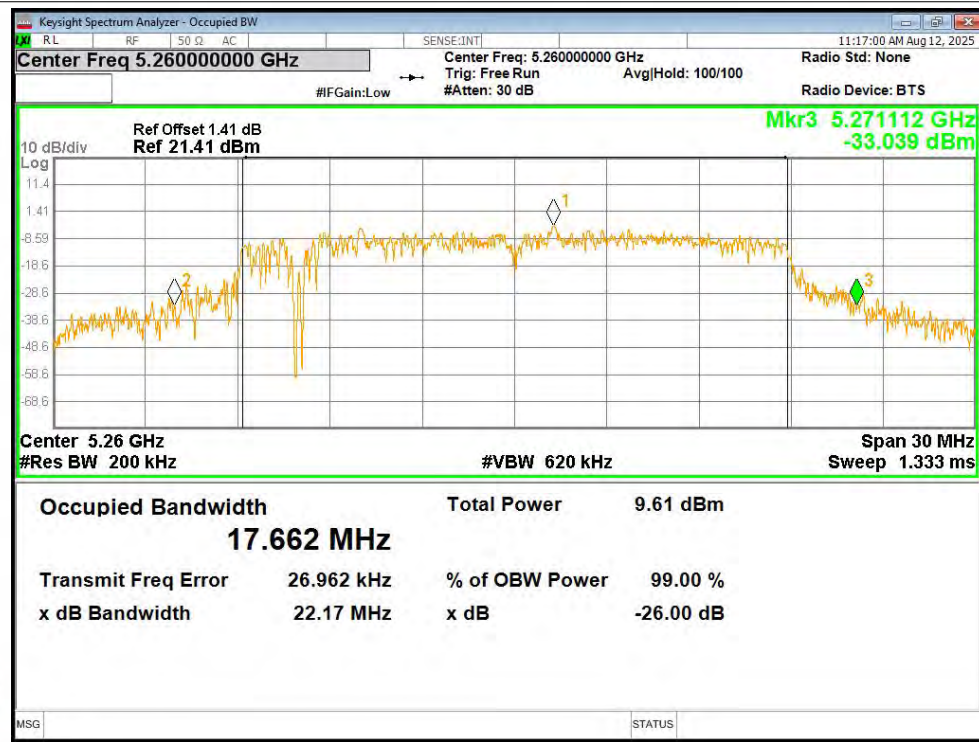
-26dB Bandwidth NVNT a 5280MHz Ant1



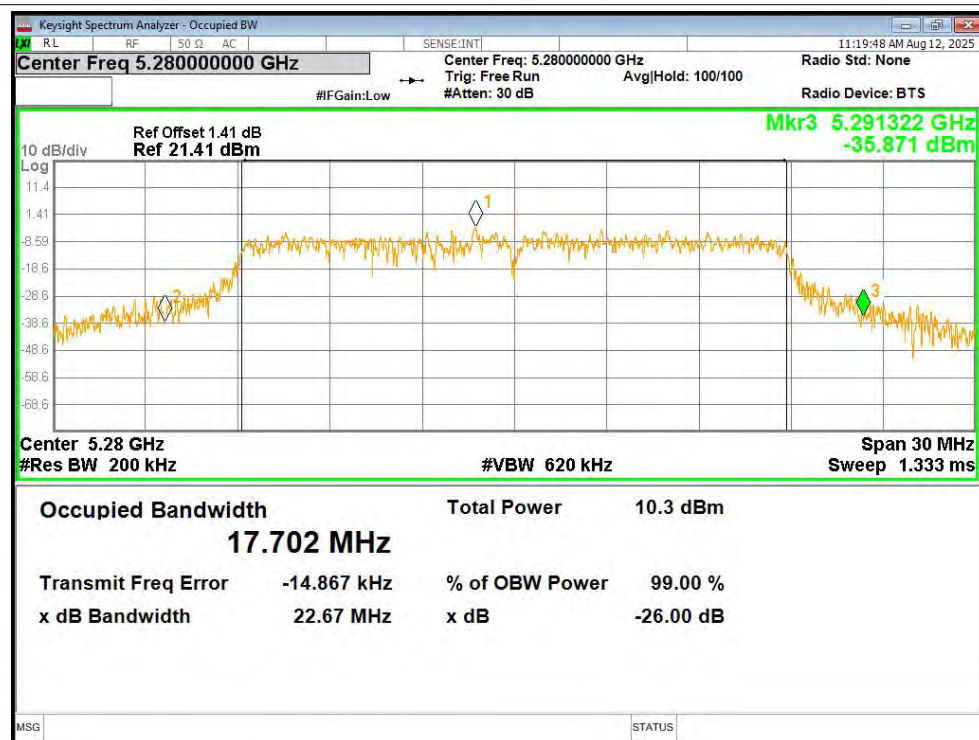
-26dB Bandwidth NVNT a 5320MHz Ant1



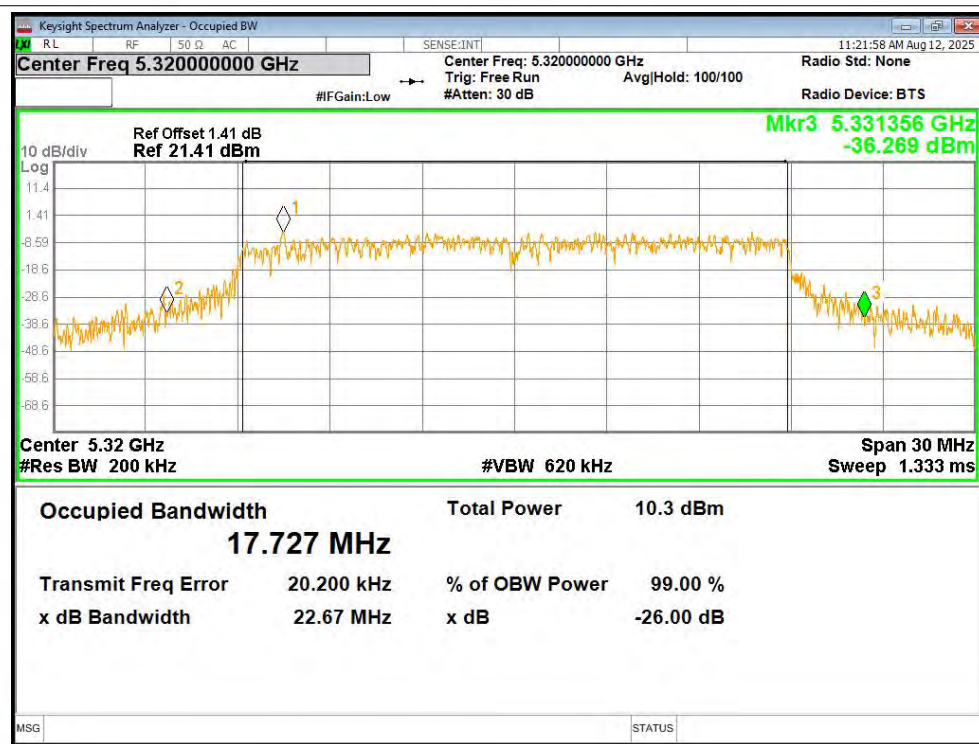
-26dB Bandwidth NVNT n20 5260MHz Ant1



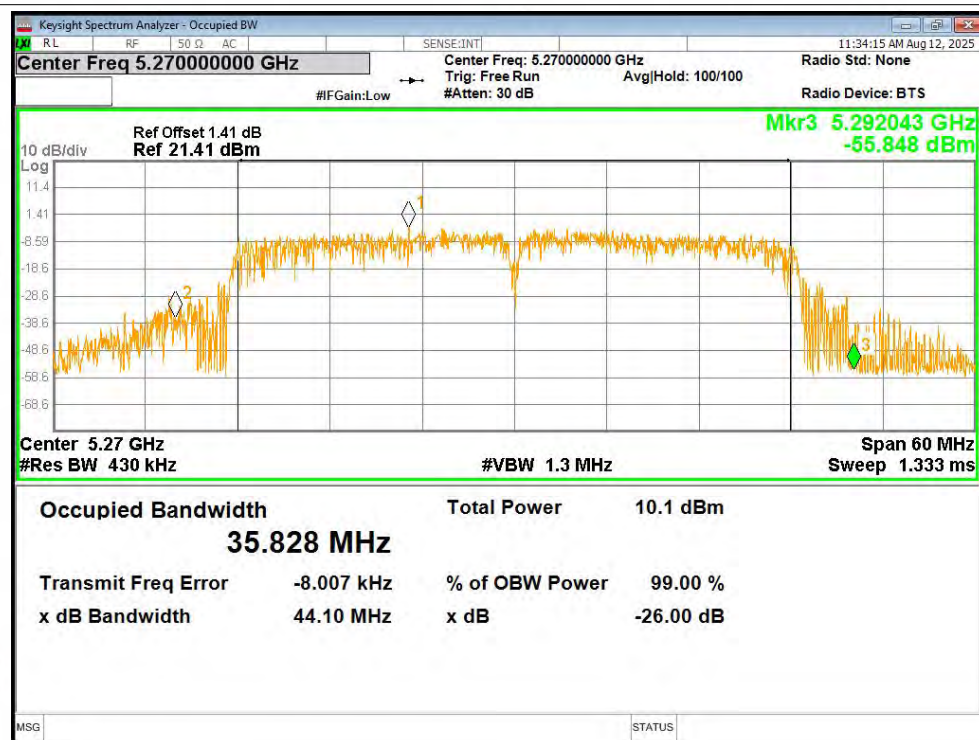
-26dB Bandwidth NVNT n20 5280MHz Ant1



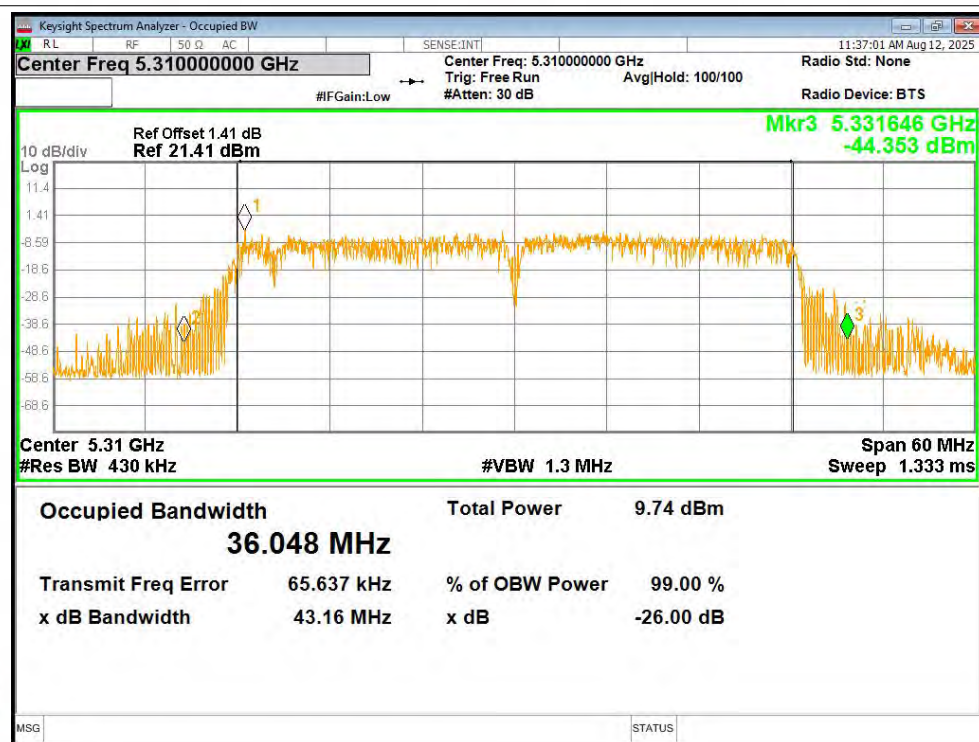
-26dB Bandwidth NVNT n20 5320MHz Ant1



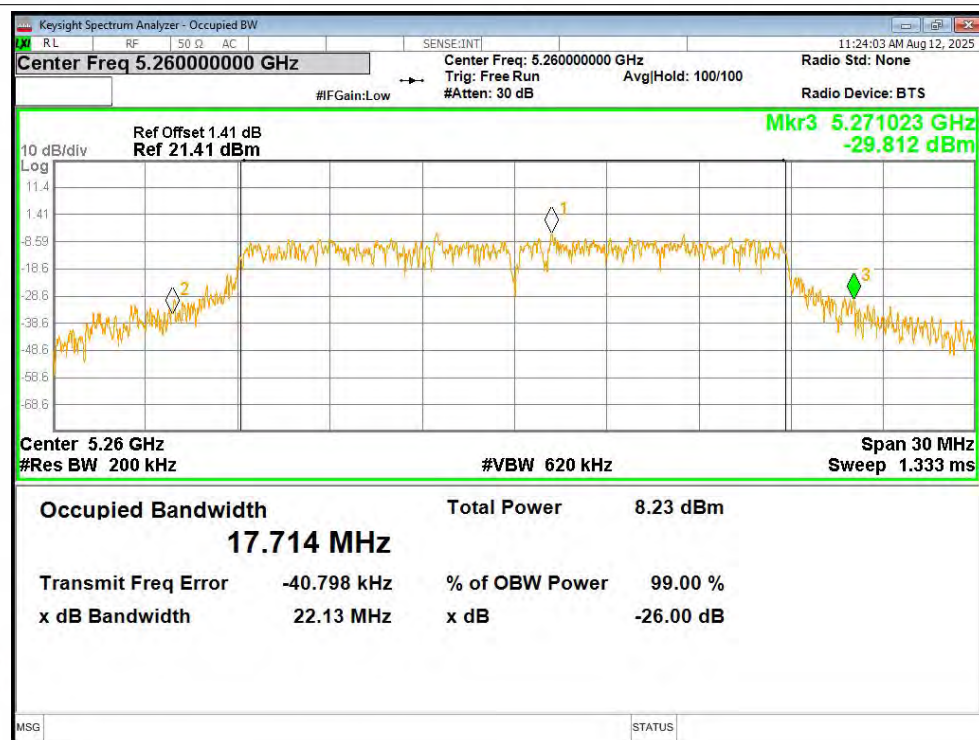
-26dB Bandwidth NVNT n40 5270MHz Ant1



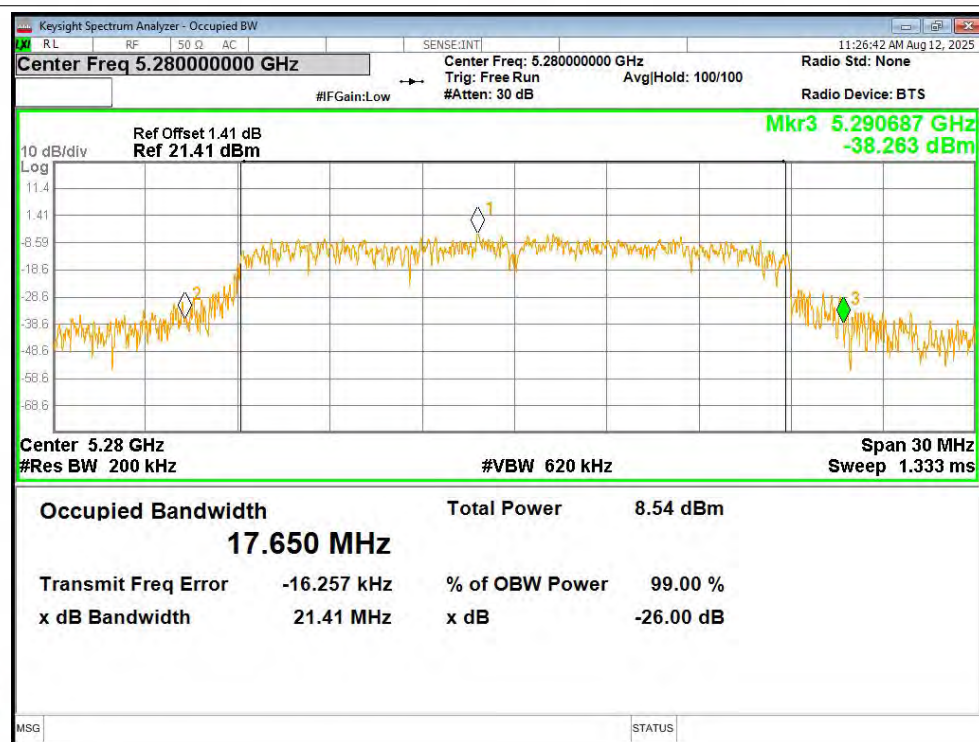
-26dB Bandwidth NVNT n40 5310MHz Ant1



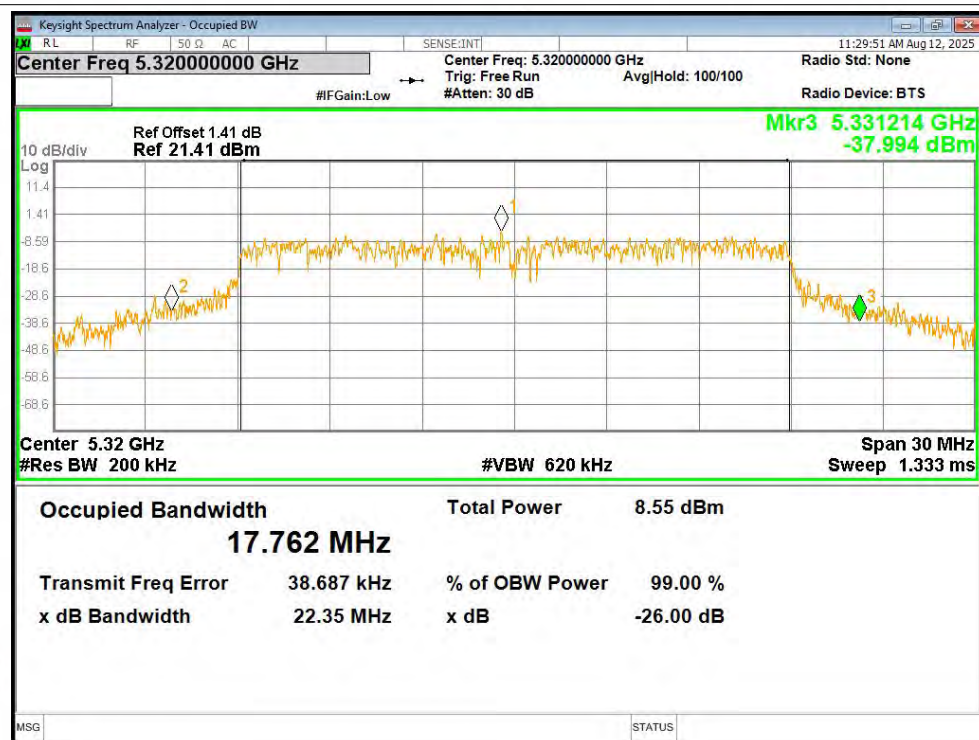
-26dB Bandwidth NVNT ac20 5260MHz Ant1



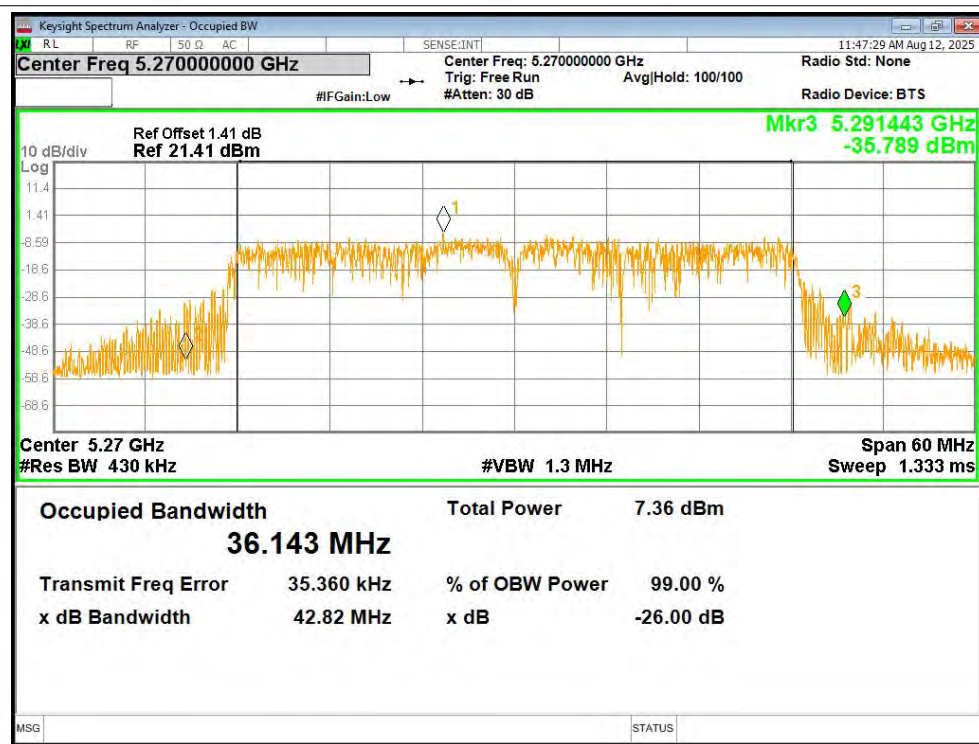
-26dB Bandwidth NVNT ac20 5280MHz Ant1

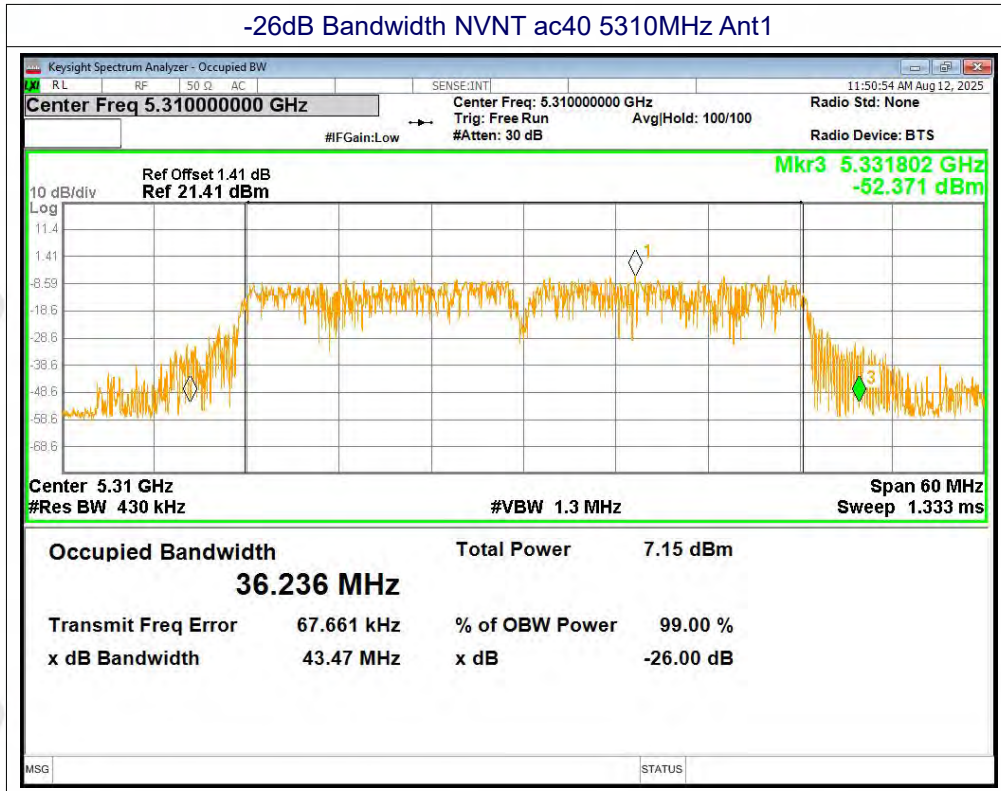


-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1





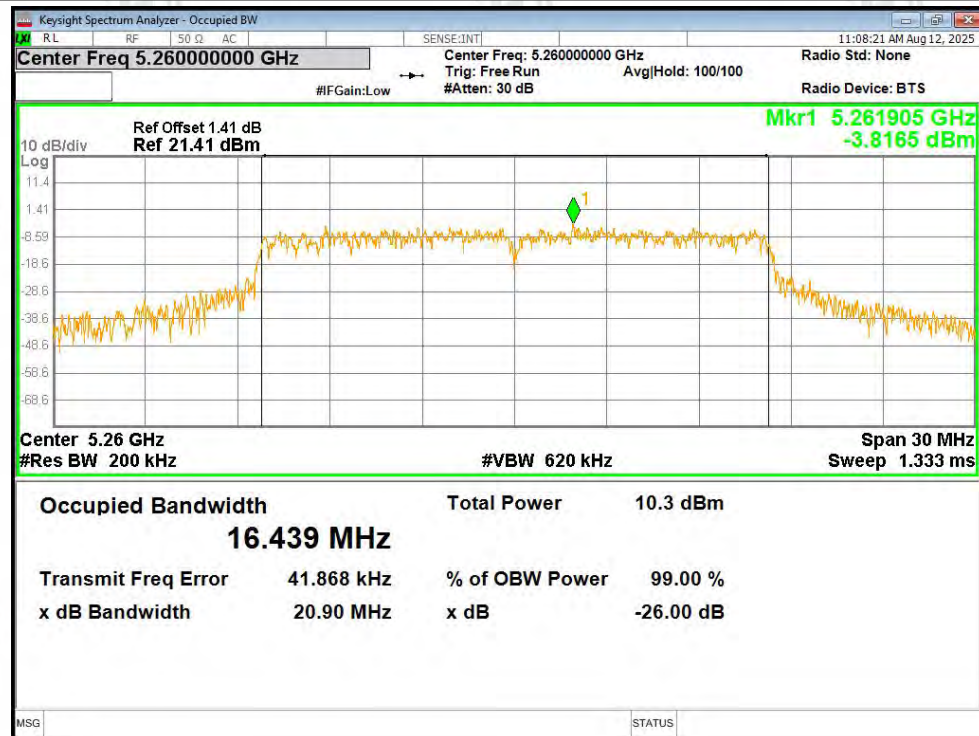


Occupied Channel Bandwidth

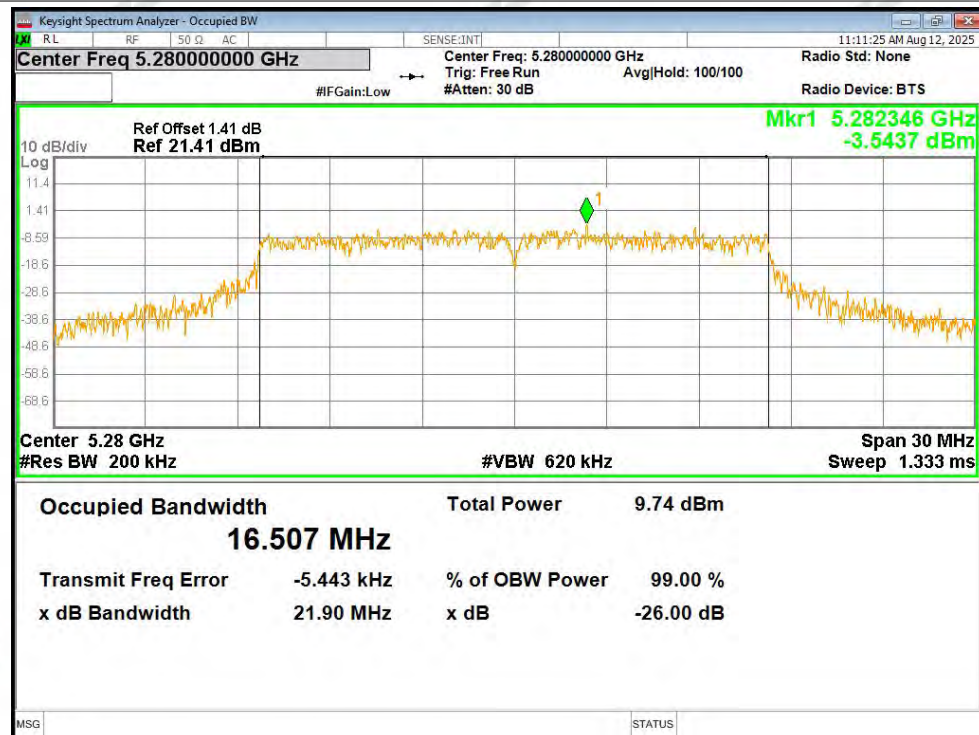
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.439
NVNT	a	5280	Ant1	16.507
NVNT	a	5320	Ant1	16.502
NVNT	n20	5260	Ant1	17.598
NVNT	n20	5280	Ant1	17.797
NVNT	n20	5320	Ant1	17.147
NVNT	n40	5270	Ant1	36.107
NVNT	n40	5310	Ant1	36.3
NVNT	ac20	5260	Ant1	17.701
NVNT	ac20	5280	Ant1	17.619
NVNT	ac20	5320	Ant1	17.673
NVNT	ac40	5270	Ant1	36.045
NVNT	ac40	5310	Ant1	36.42

Test Graphs

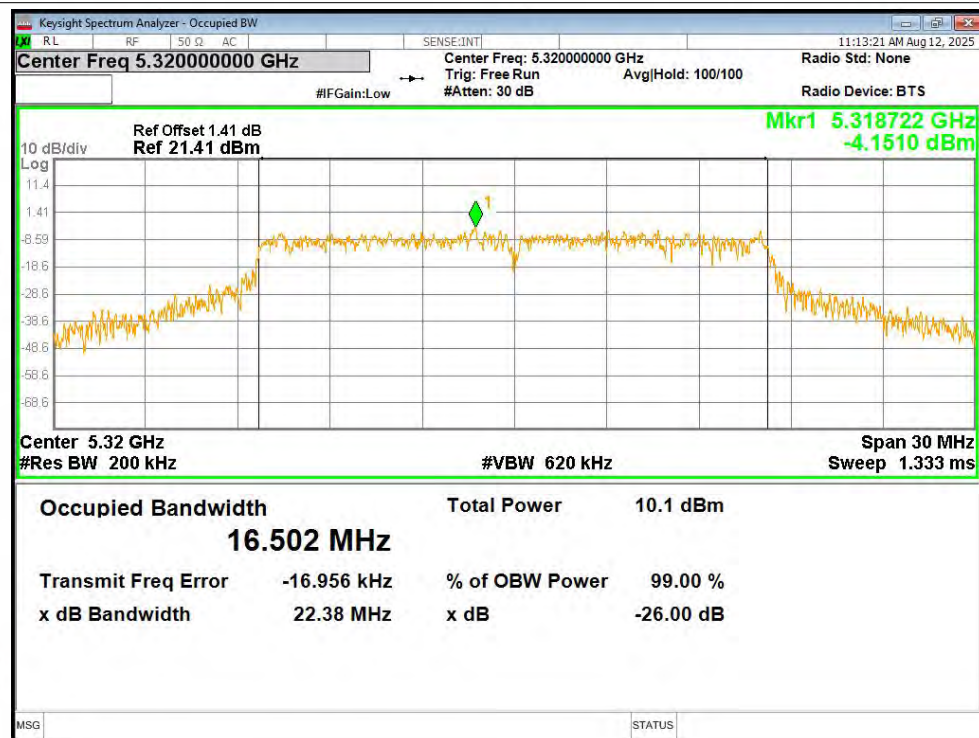
OBW NVNT a 5260MHz Ant1



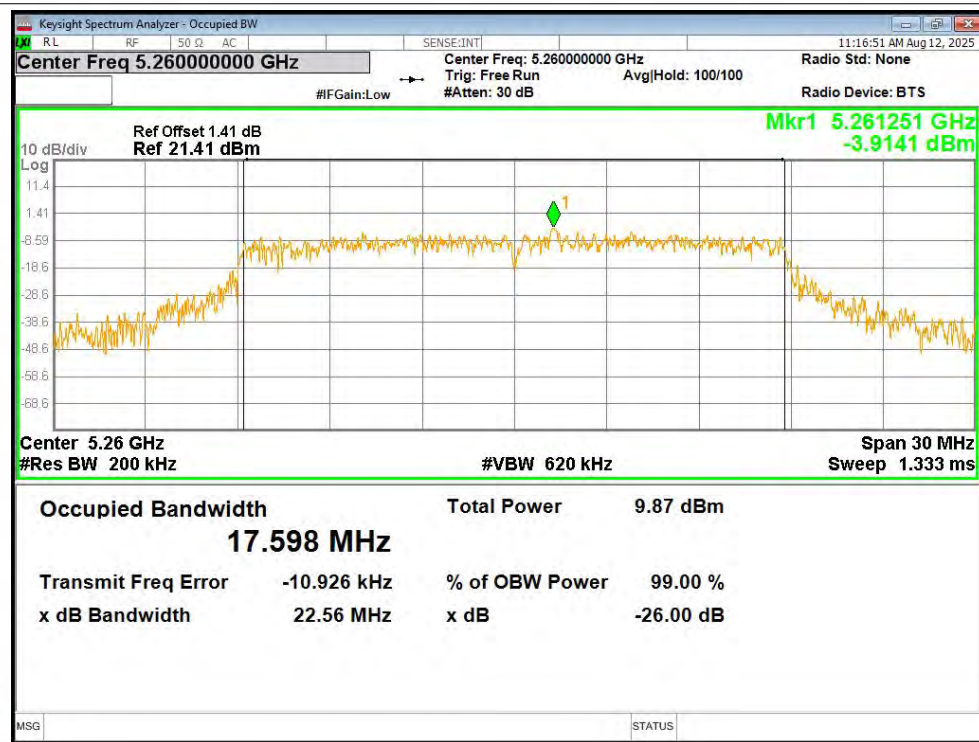
OBW NVNT a 5280MHz Ant1



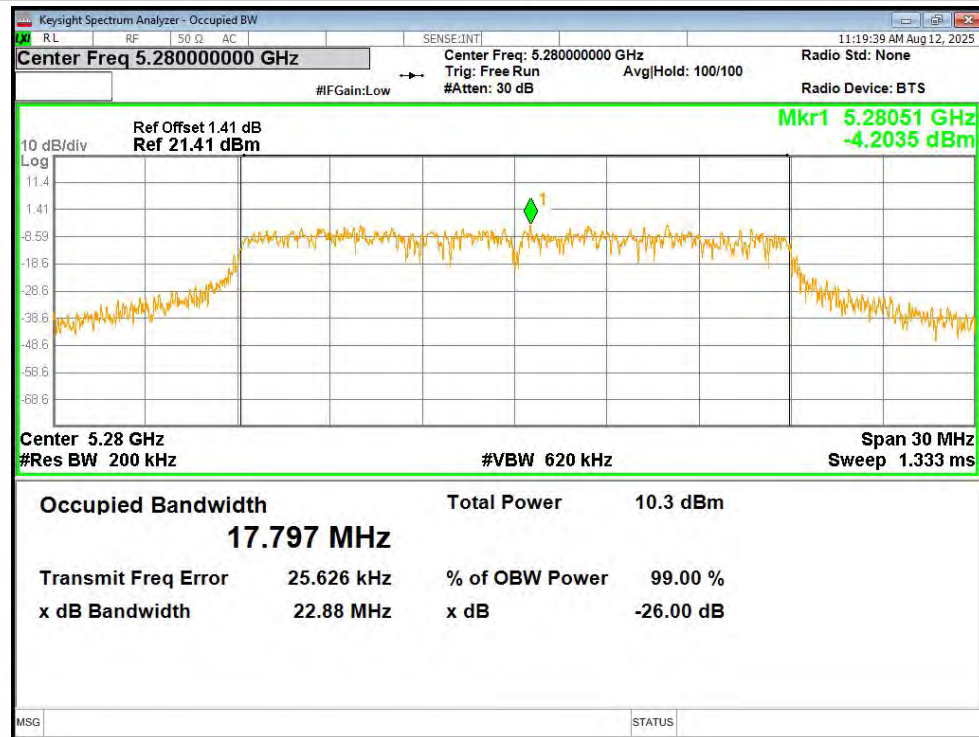
OBW NVNT a 5320MHz Ant1



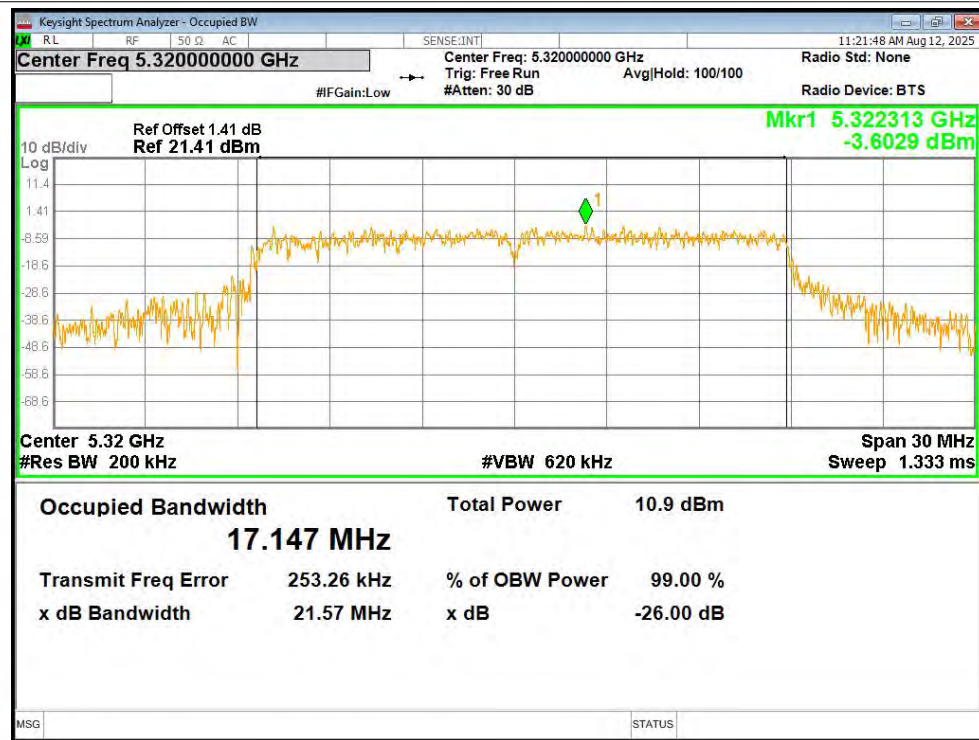
OBW NVNT n20 5260MHz Ant1



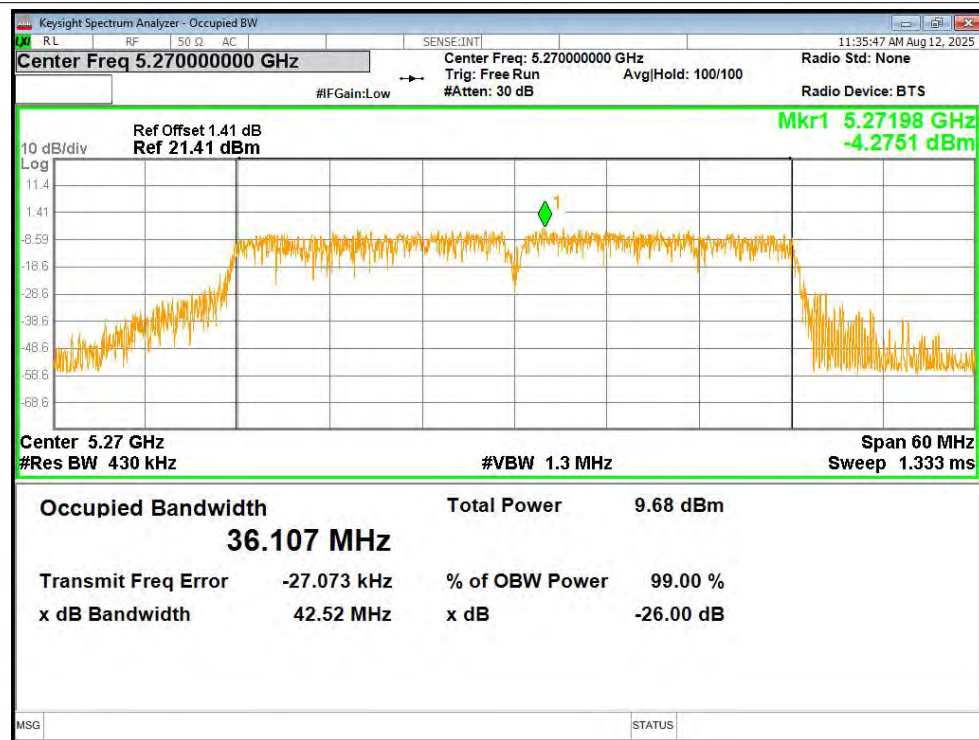
OBW NVNT n20 5280MHz Ant1



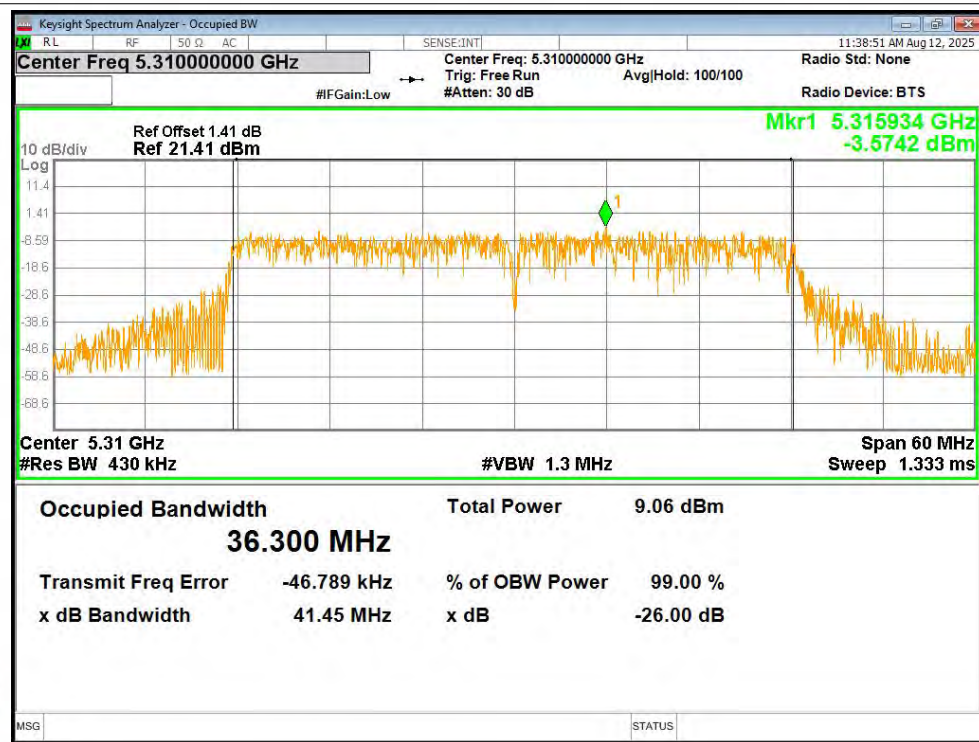
OBW NVNT n20 5320MHz Ant1



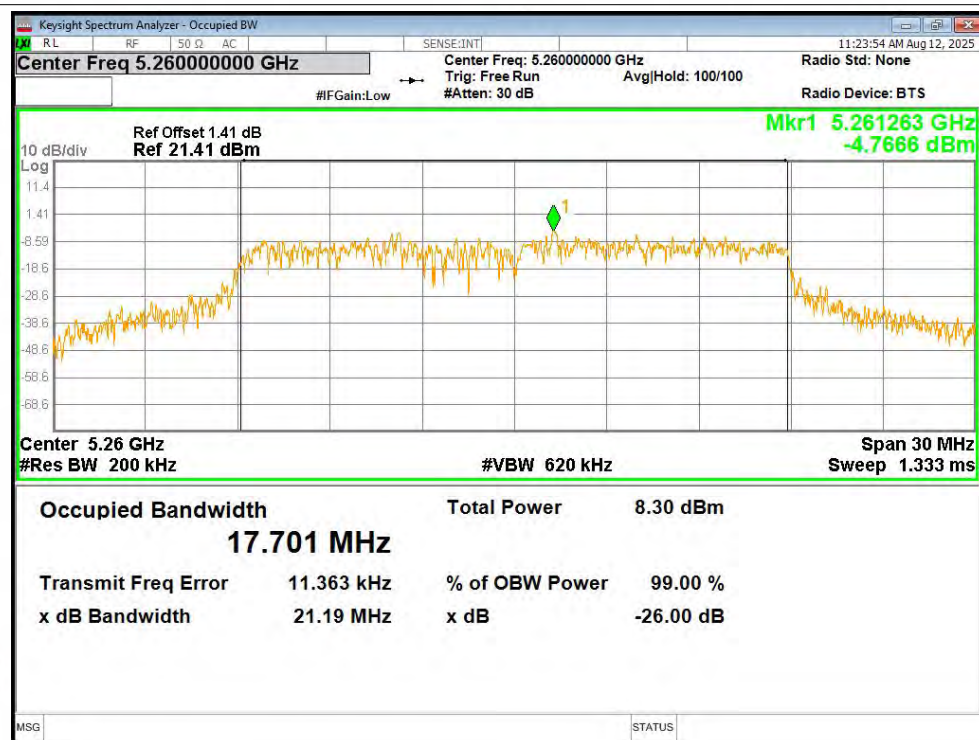
OBW NVNT n40 5270MHz Ant1



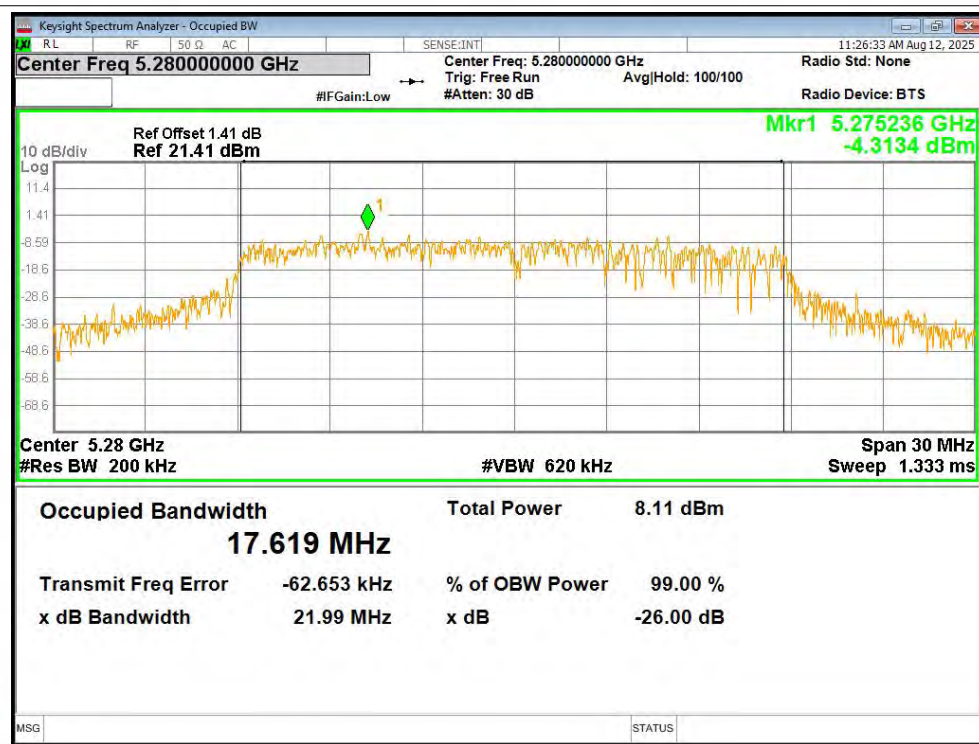
OBW NVNT n40 5310MHz Ant1



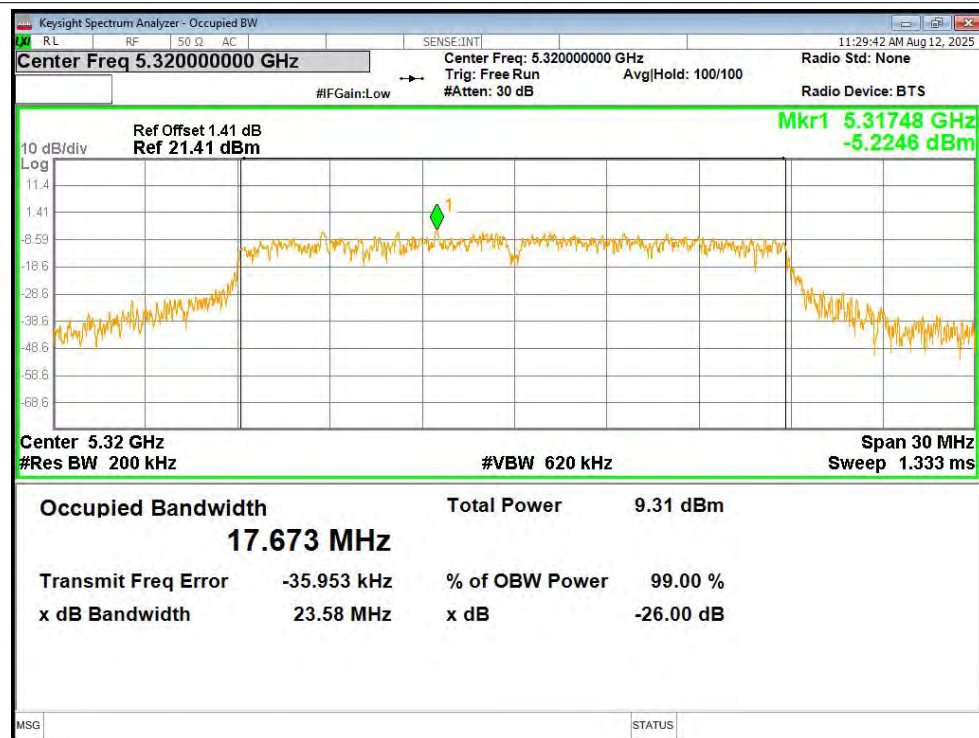
OBW NVNT ac20 5260MHz Ant1



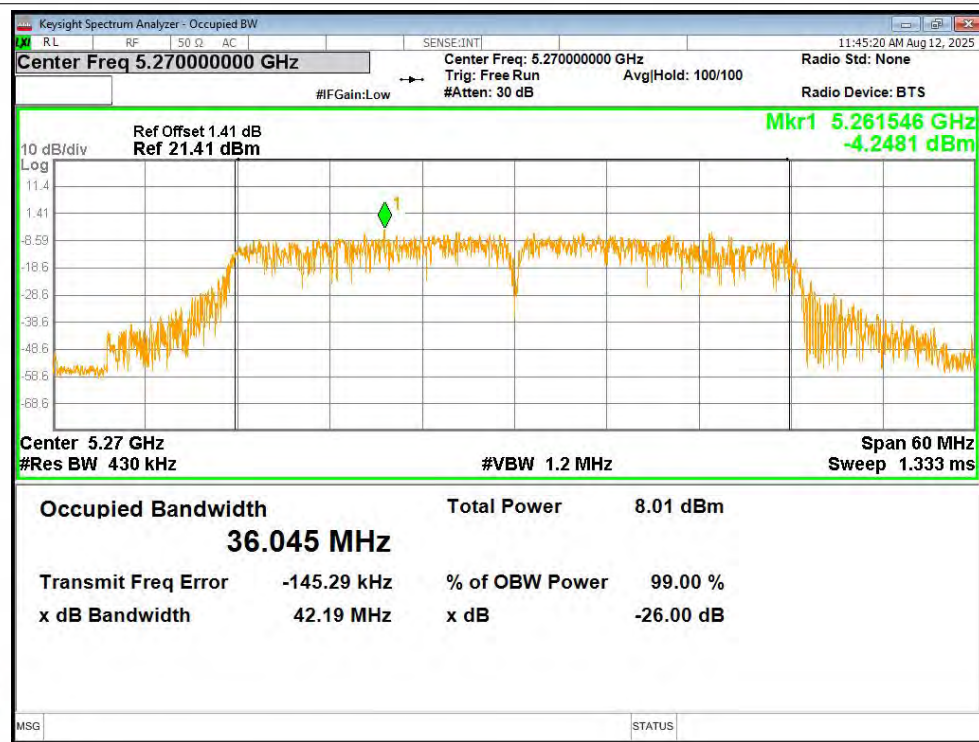
OBW NVNT ac20 5280MHz Ant1

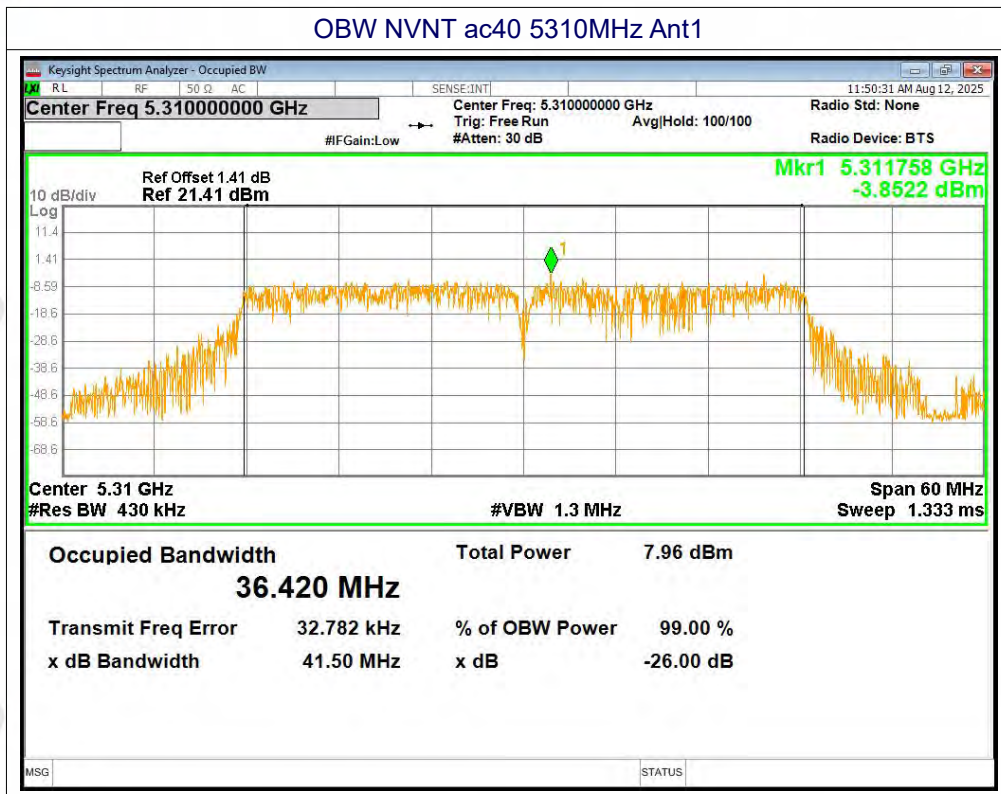


OBW NVNT ac20 5320MHz Ant1



OBW NVNT ac40 5270MHz Ant1





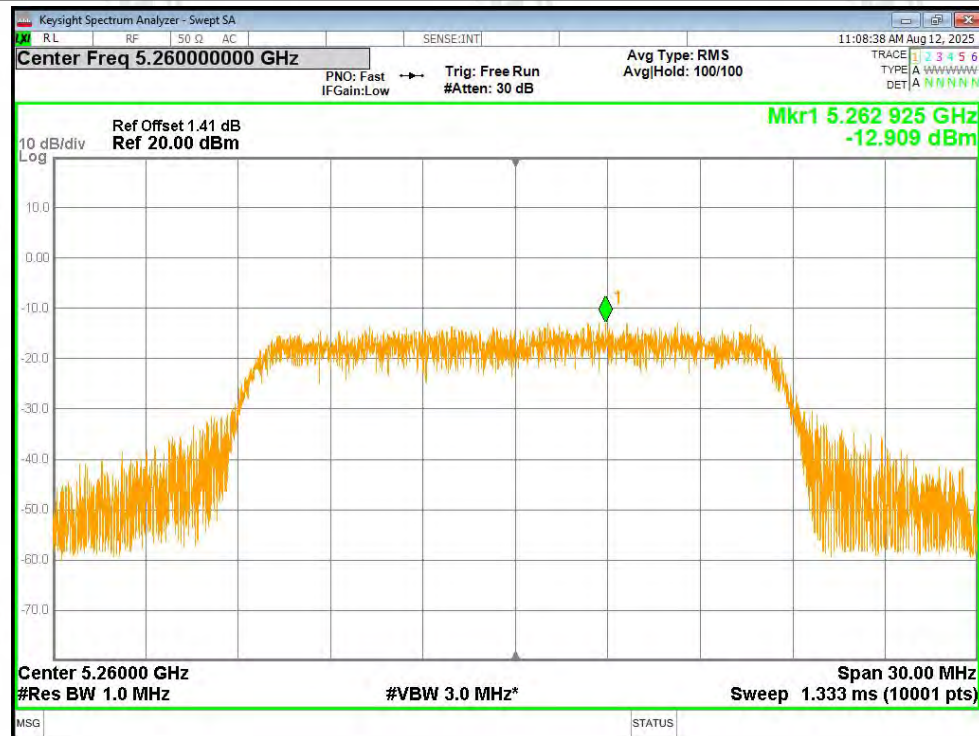


Maximum Power Spectral Density Level

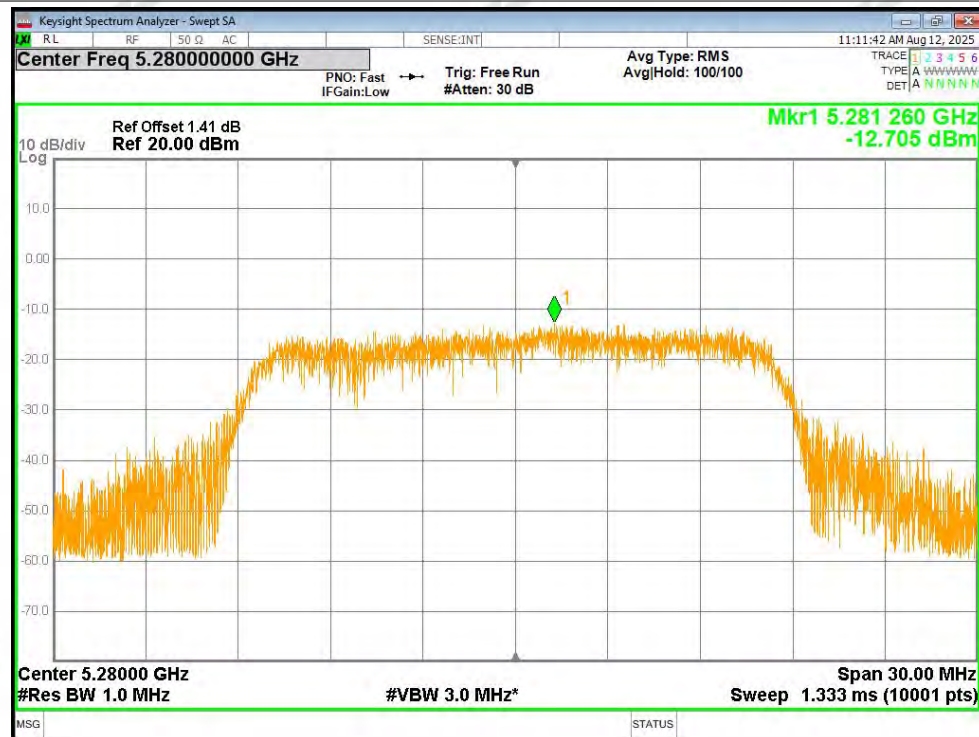
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	-12.91	12.42	-0.49	11	Pass
NVNT	a	5280	Ant1	-12.71	12.41	-0.30	11	Pass
NVNT	a	5320	Ant1	-13.2	12.34	-0.86	11	Pass
NVNT	n20	5260	Ant1	-13.72	12.99	-0.73	11	Pass
NVNT	n20	5280	Ant1	-12.18	12.92	0.74	11	Pass
NVNT	n20	5320	Ant1	-13.65	12.92	-0.73	11	Pass
NVNT	n40	5270	Ant1	-16.54	15.65	-0.89	11	Pass
NVNT	n40	5310	Ant1	-17.82	15.65	-2.17	11	Pass
NVNT	ac20	5260	Ant1	-14.19	13.58	-0.61	11	Pass
NVNT	ac20	5280	Ant1	-16.05	13.67	-2.38	11	Pass
NVNT	ac20	5320	Ant1	-14.28	13.58	-0.70	11	Pass
NVNT	ac40	5270	Ant1	-17.61	16.68	-0.93	11	Pass
NVNT	ac40	5310	Ant1	-18.42	16.68	-1.74	11	Pass

Test Graphs

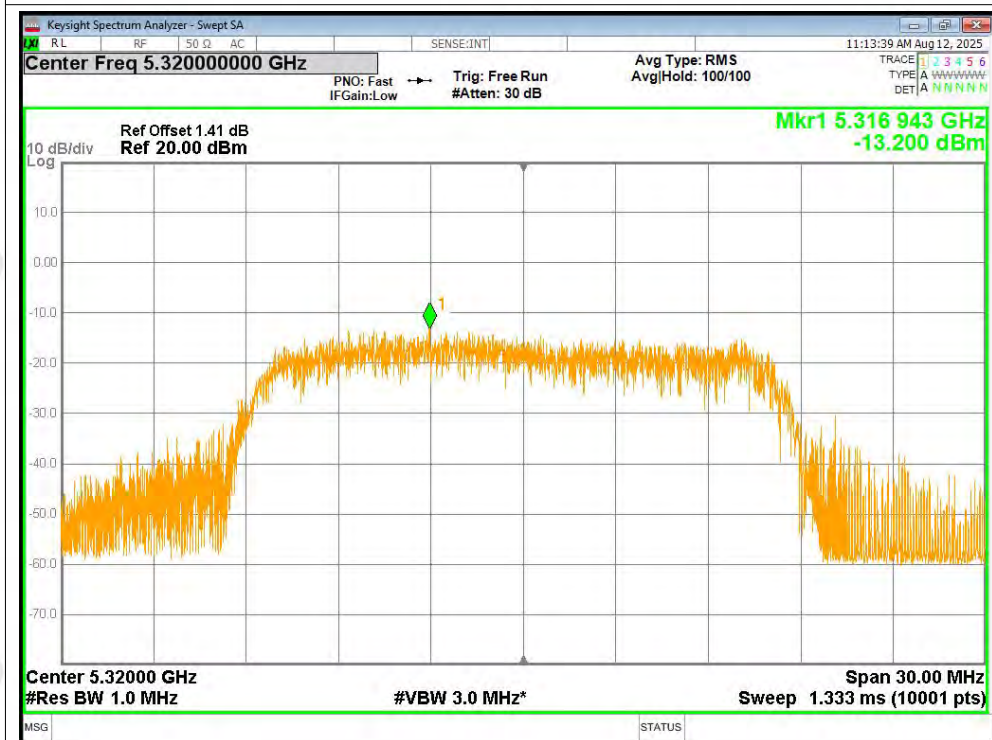
PSD NVNT a 5260MHz Ant1



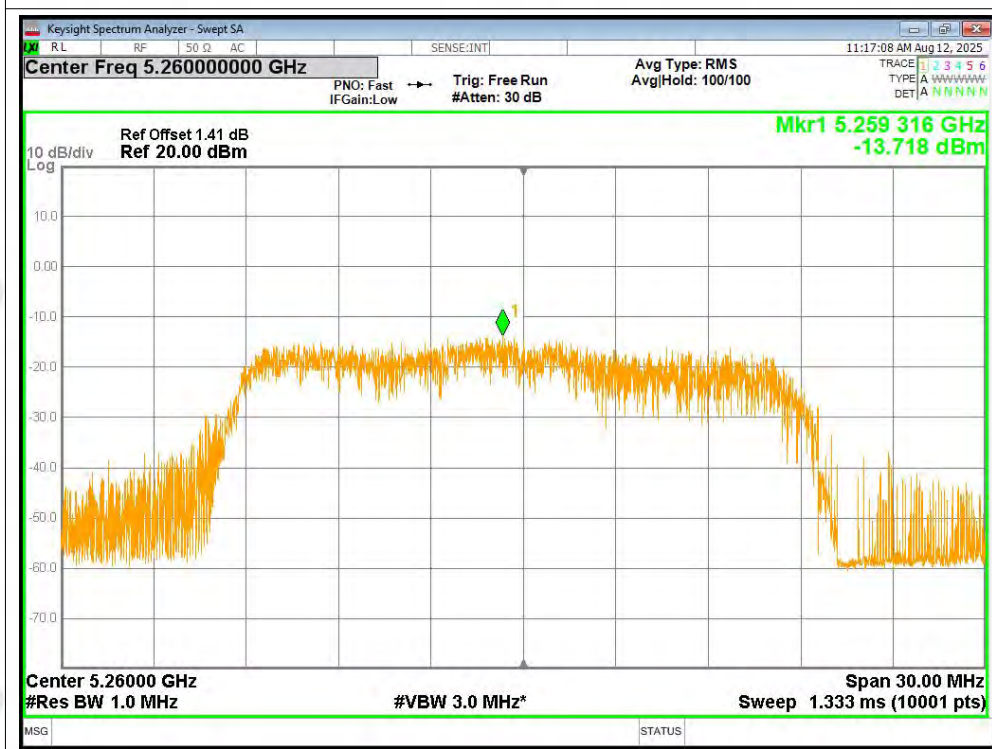
PSD NVNT a 5280MHz Ant1



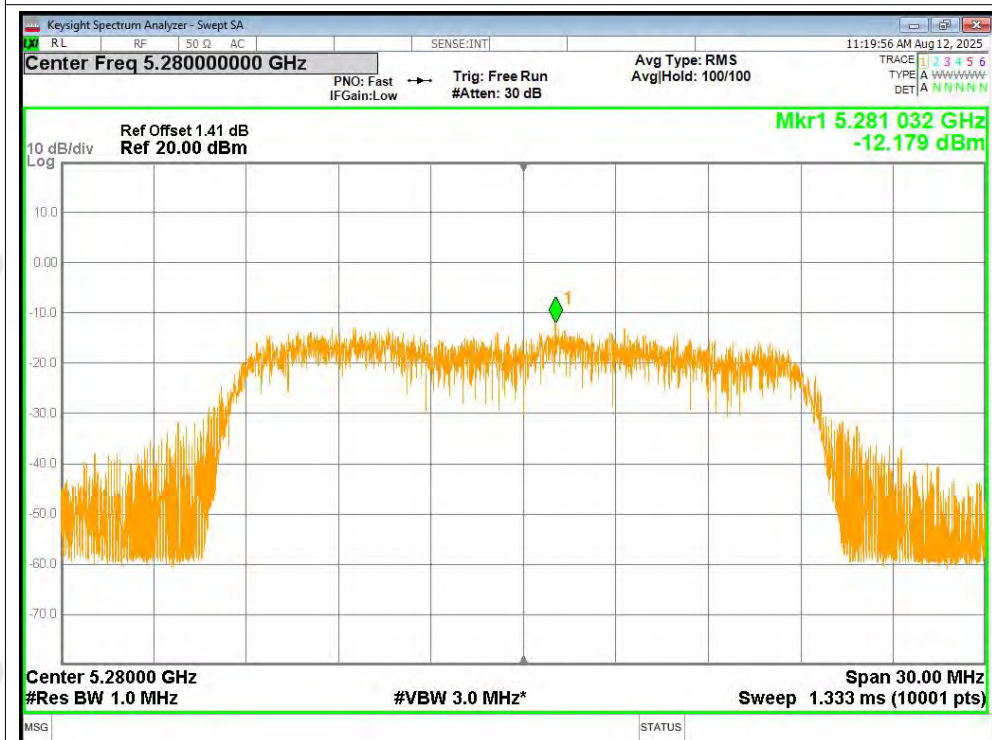
PSD NVNT a 5320MHz Ant1



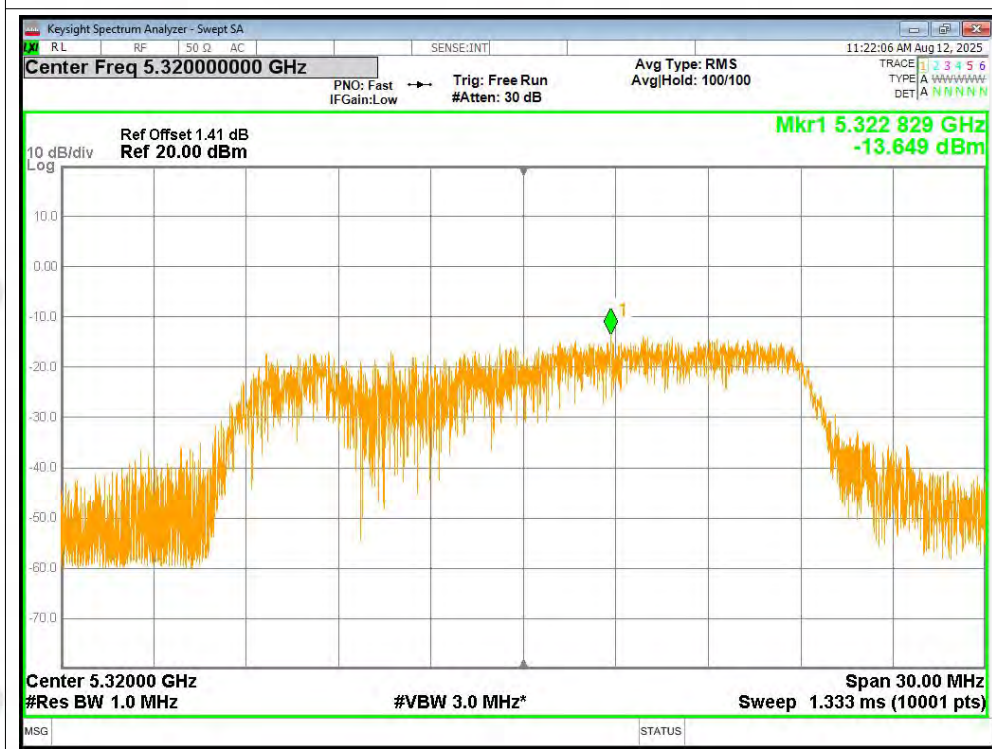
PSD NVNT n20 5260MHz Ant1



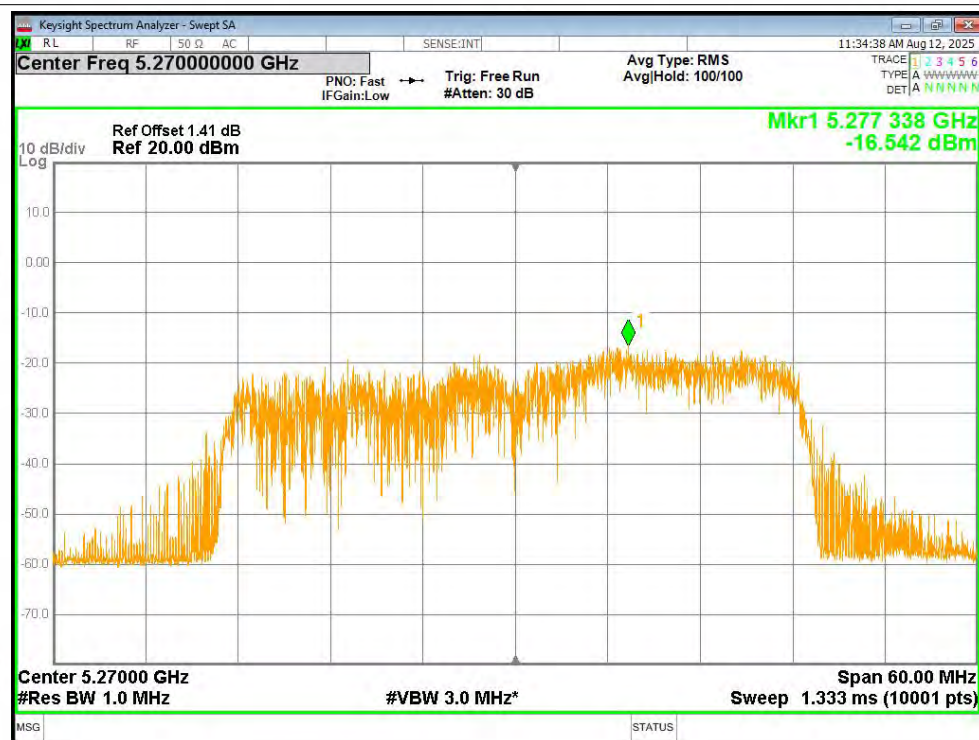
PSD NVNT n20 5280MHz Ant1



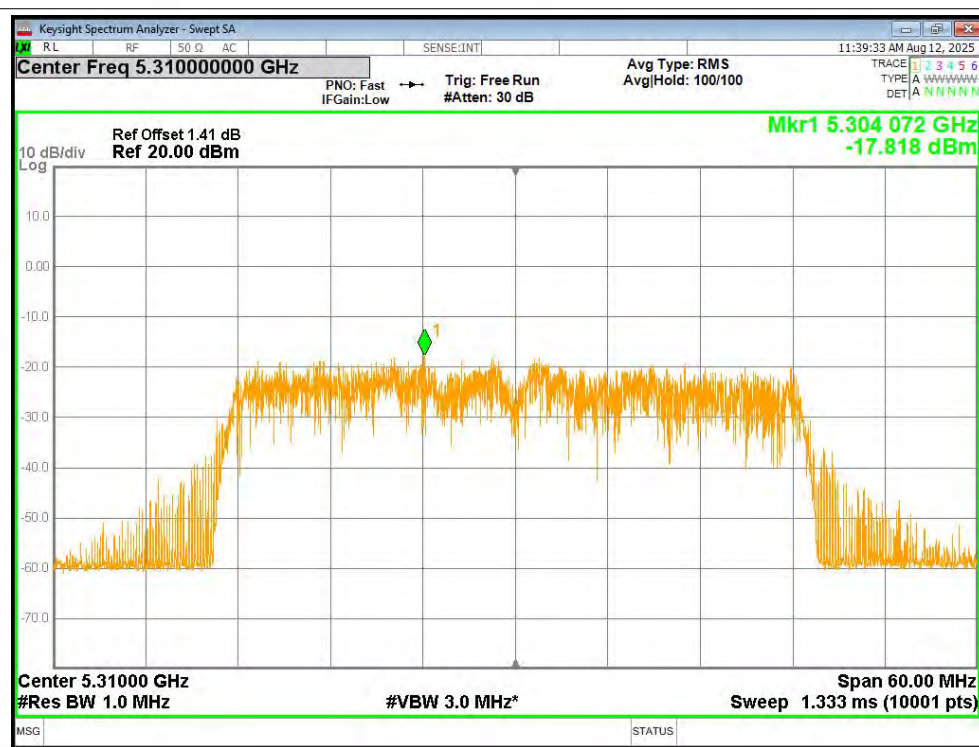
PSD NVNT n20 5320MHz Ant1



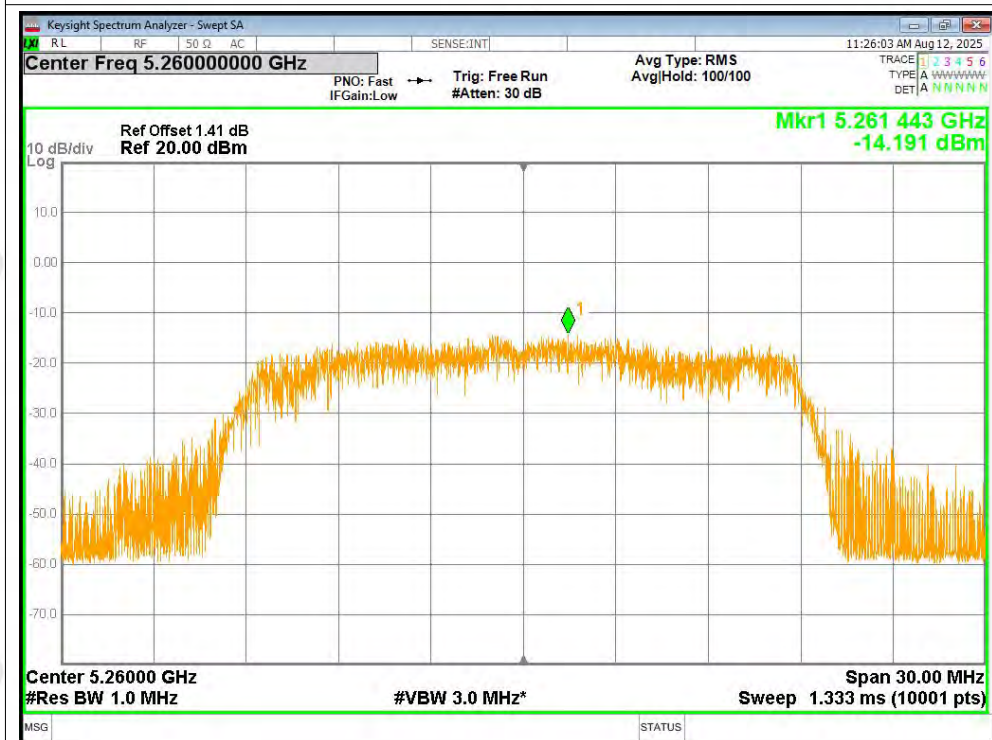
PSD NVNT n40 5270MHz Ant1



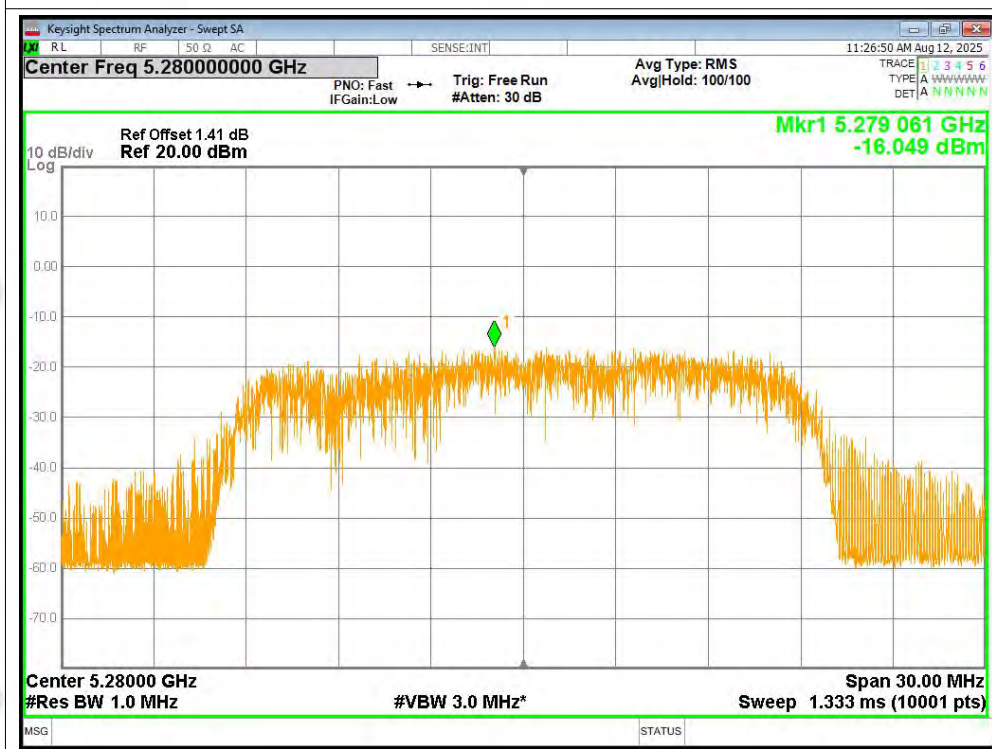
PSD NVNT n40 5310MHz Ant1



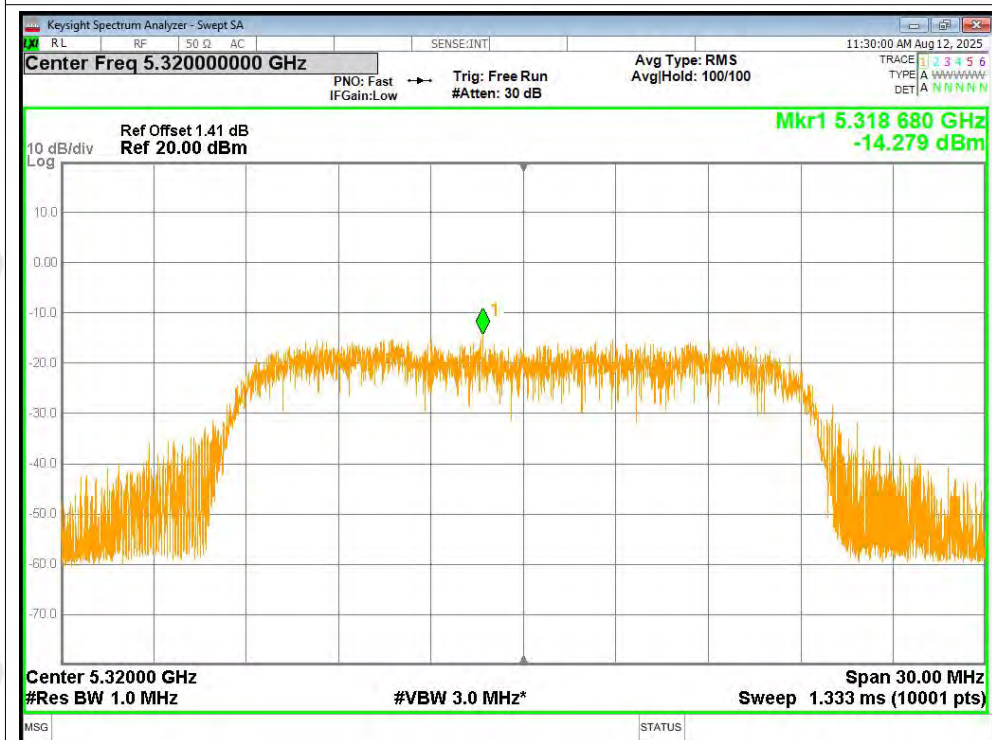
PSD NVNT ac20 5260MHz Ant1



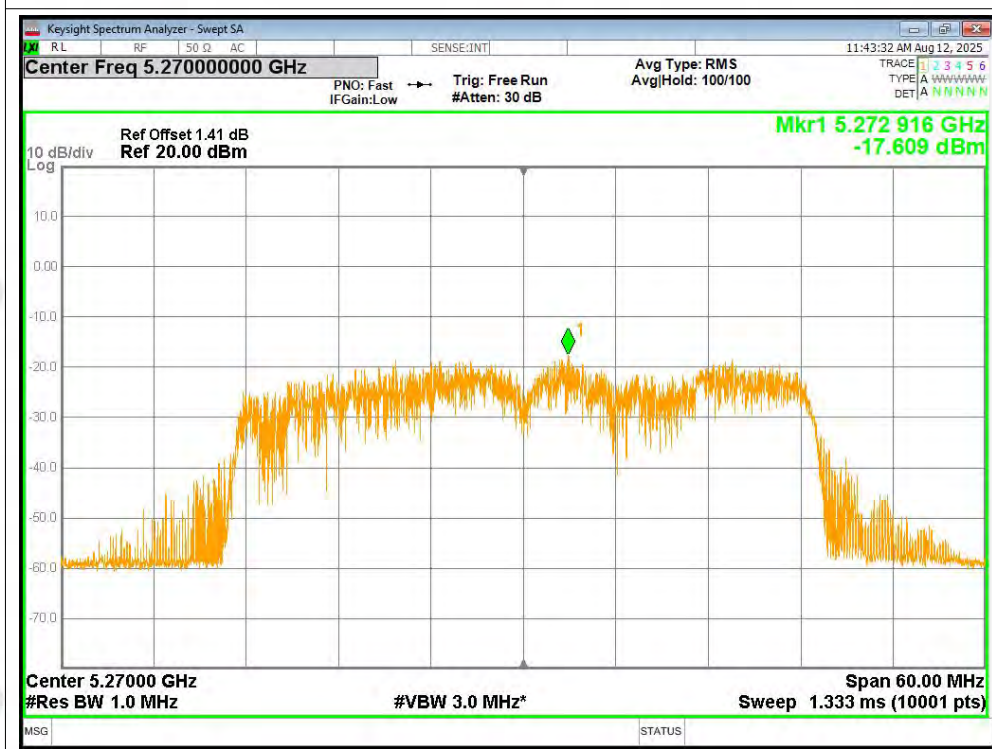
PSD NVNT ac20 5280MHz Ant1

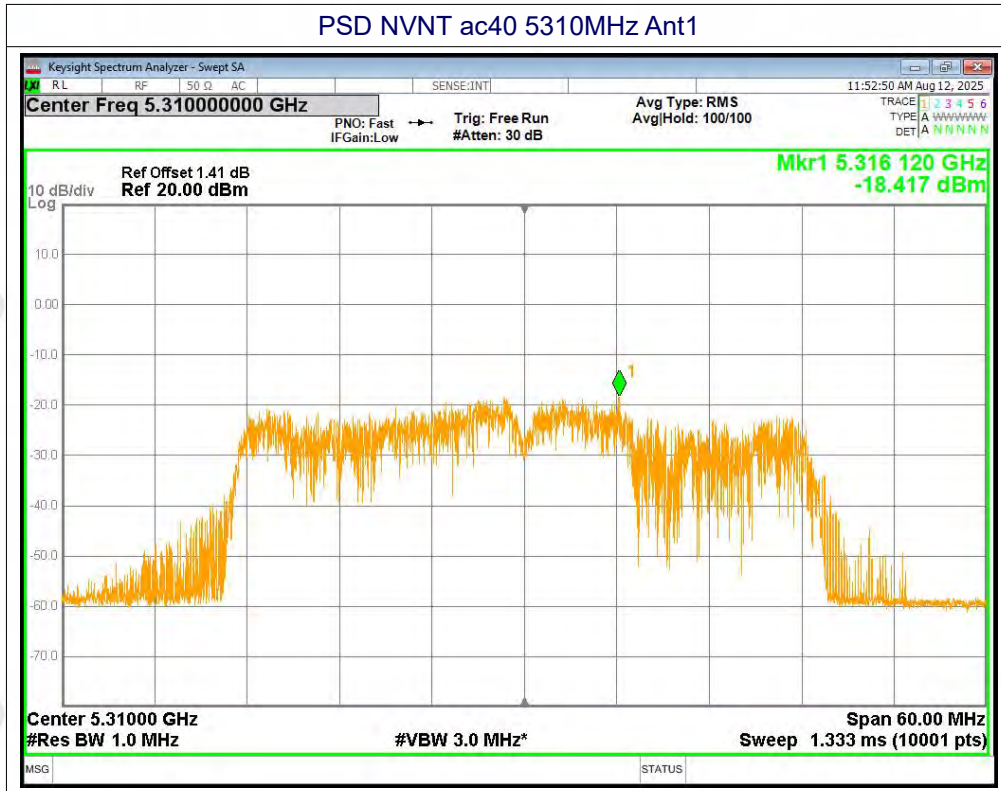


PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac40 5270MHz Ant1





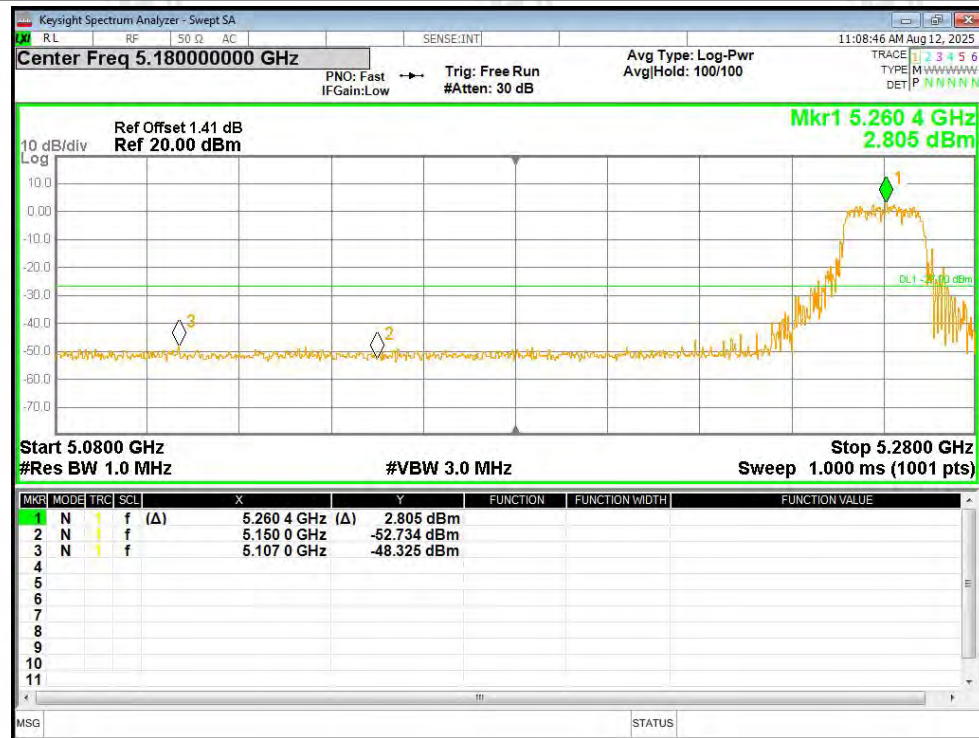


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	ANT Gain (dBi)	EIRP Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5260	Ant1	-48.32	1.56	-46.76	-27	Pass
NVNT	a	5320	Ant1	-43.35	1.56	-41.79	-27	Pass
NVNT	n20	5260	Ant1	-49.22	1.56	-47.66	-27	Pass
NVNT	n20	5320	Ant1	-47.75	1.56	-46.19	-27	Pass
NVNT	n40	5270	Ant1	-48.34	1.56	-46.78	-27	Pass
NVNT	n40	5310	Ant1	-46.93	1.56	-45.37	-27	Pass
NVNT	ac20	5260	Ant1	-49.64	1.56	-48.08	-27	Pass
NVNT	ac20	5320	Ant1	-45.83	1.56	-44.27	-27	Pass
NVNT	ac40	5270	Ant1	-49.36	1.56	-47.80	-27	Pass
NVNT	ac40	5310	Ant1	-45.74	1.56	-44.18	-27	Pass

Test Graphs

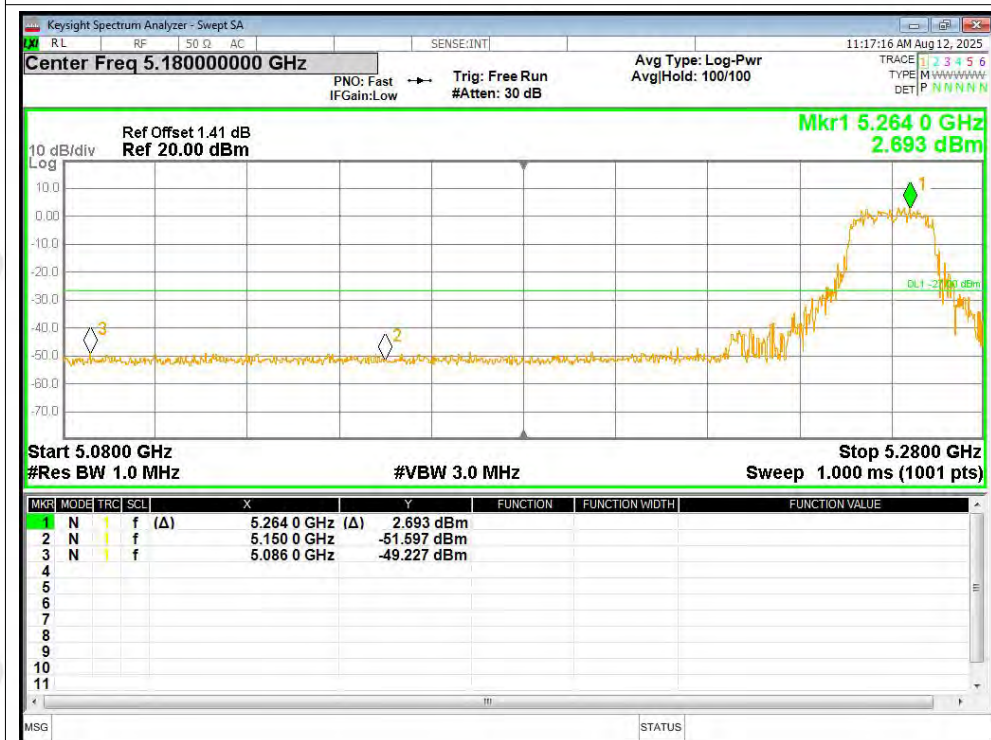
Band Edge NVNT a 5260MHz Low Ant1



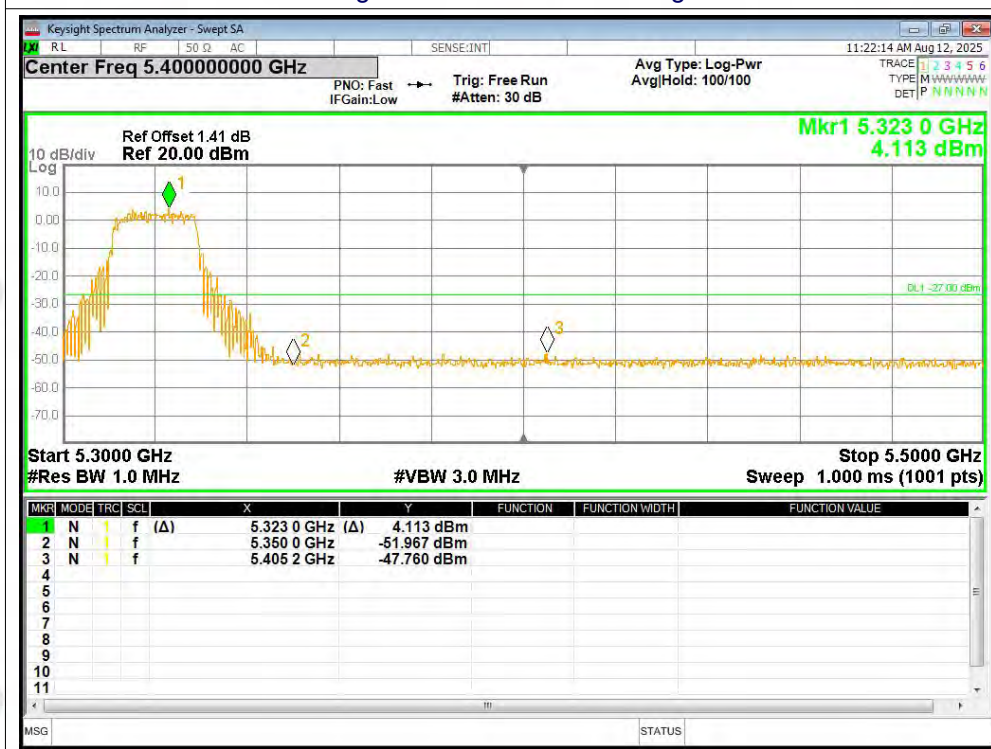
Band Edge NVNT a 5320MHz High Ant1



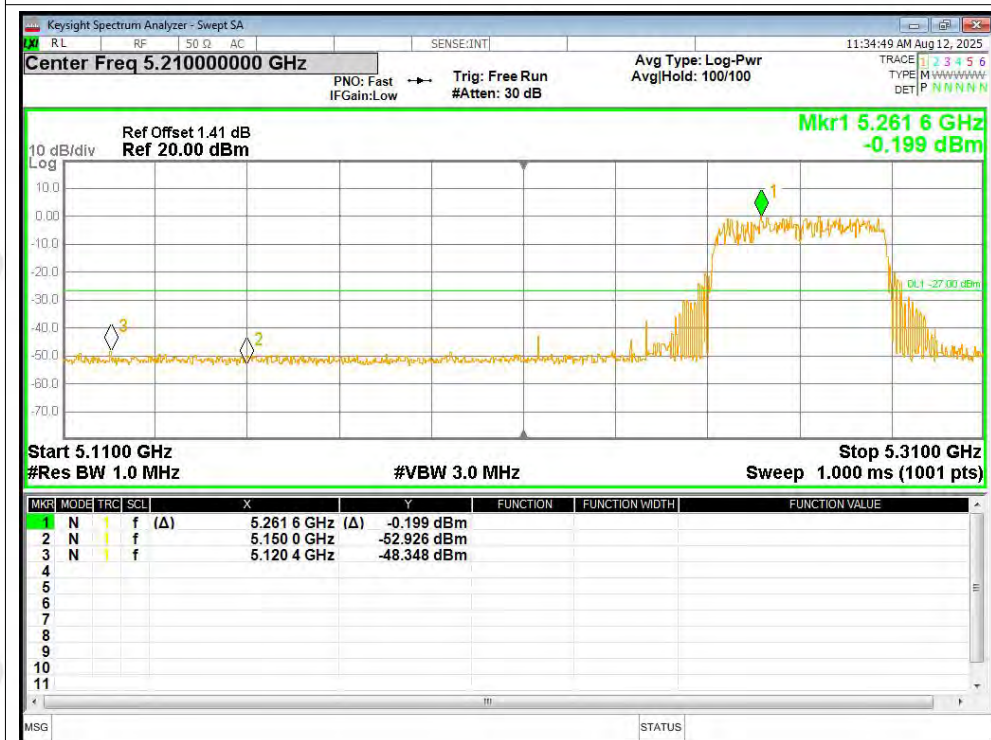
Band Edge NVNT n20 5260MHz Low Ant1



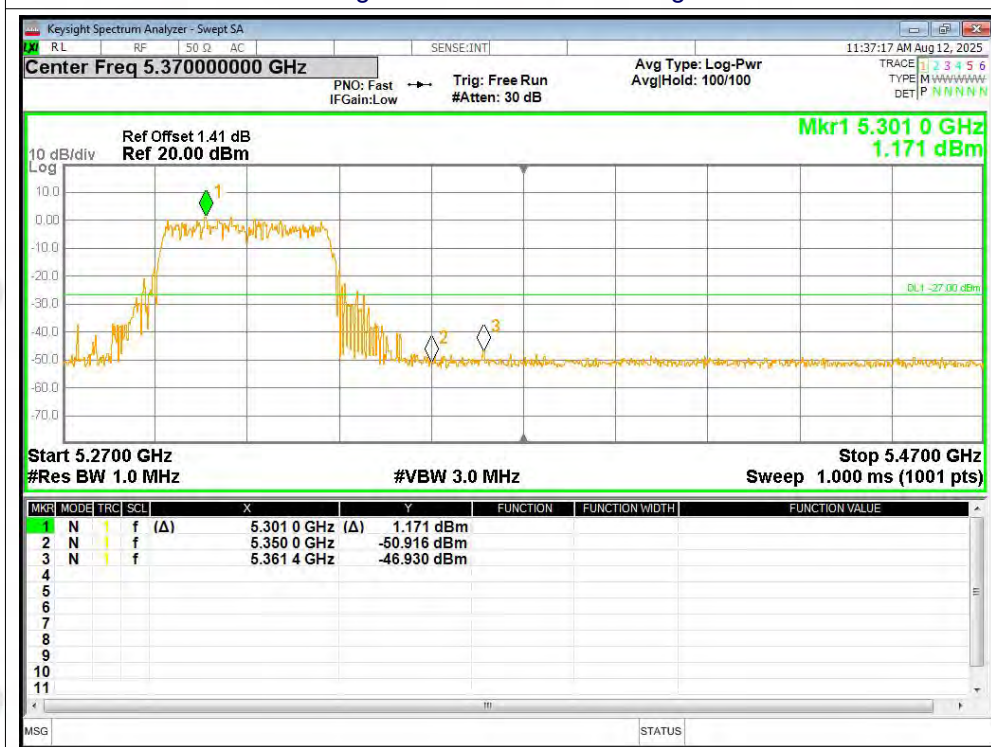
Band Edge NVNT n20 5320MHz High Ant1



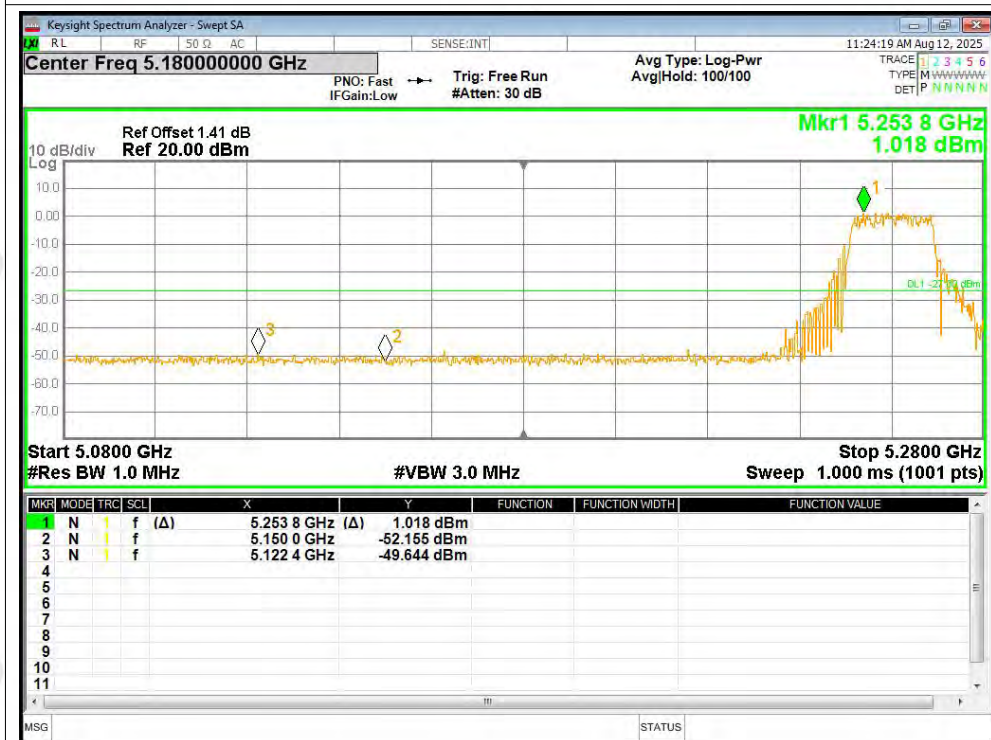
Band Edge NVNT n40 5270MHz Low Ant1



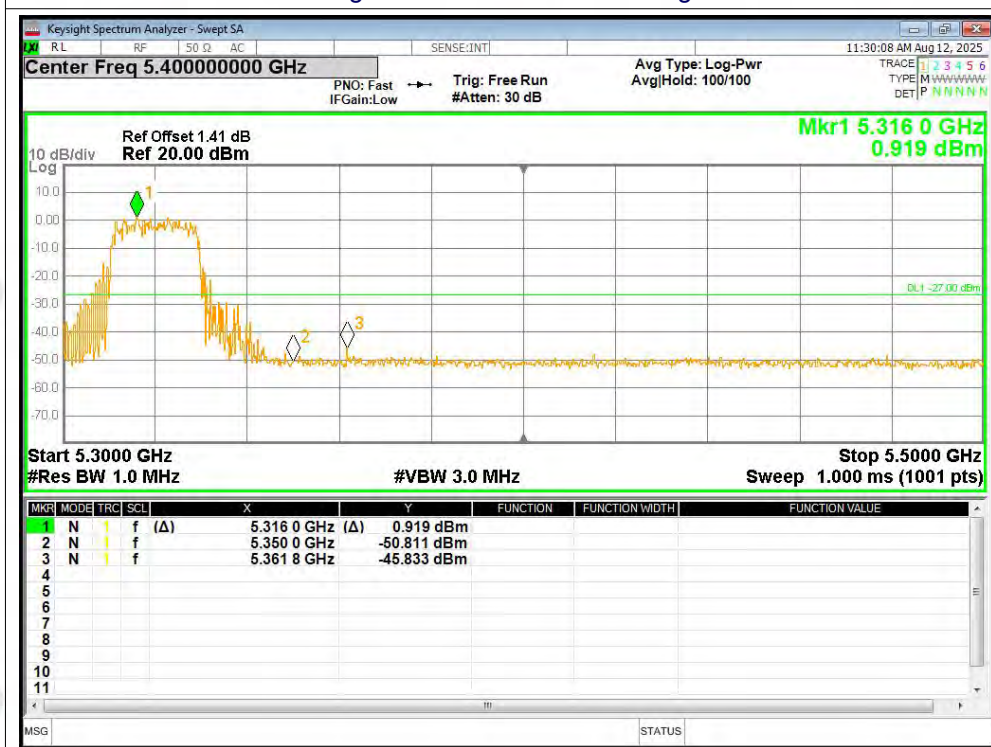
Band Edge NVNT n40 5310MHz High Ant1



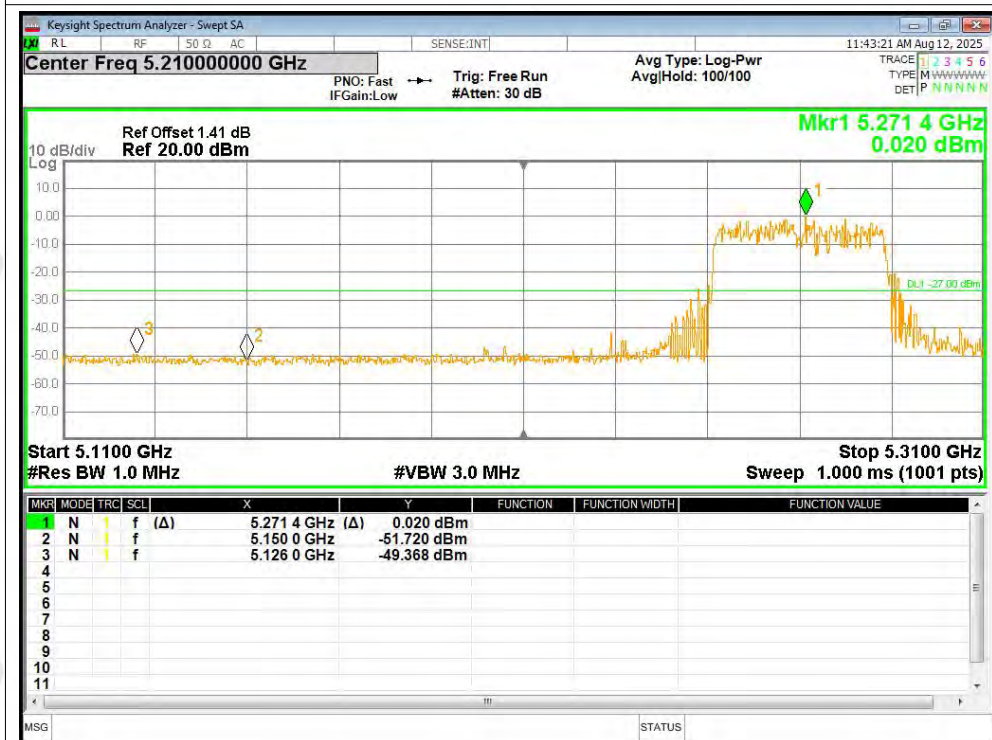
Band Edge NVNT ac20 5260MHz Low Ant1



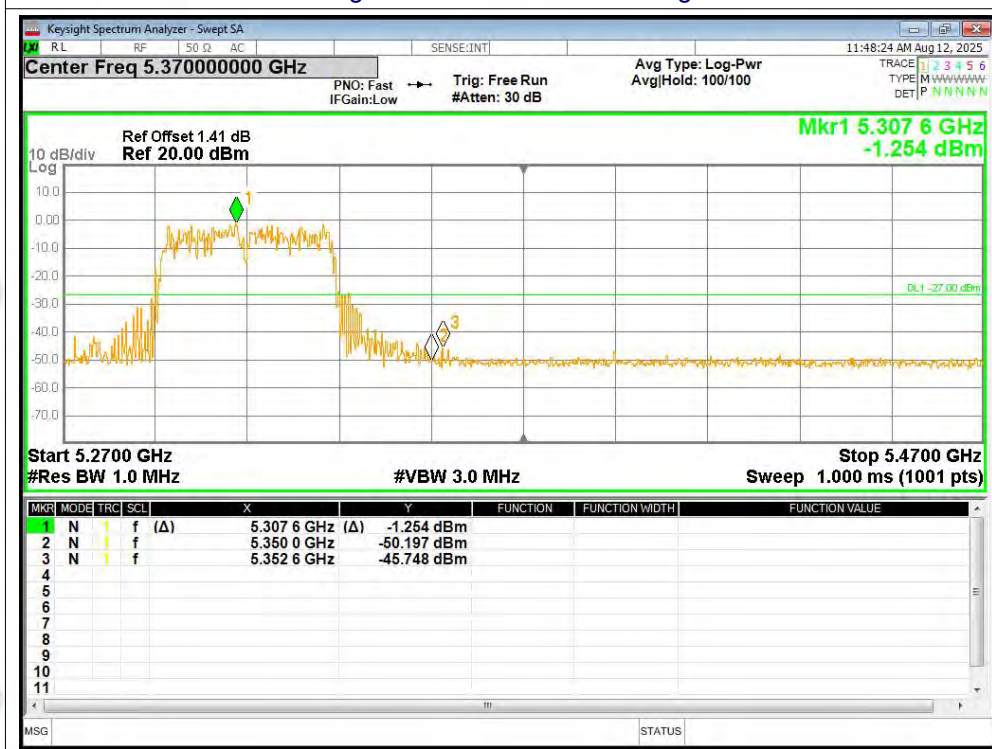
Band Edge NVNT ac20 5320MHz High Ant1



Band Edge NVNT ac40 5270MHz Low Ant1



Band Edge NVNT ac40 5310MHz High Ant1





Frequency Stability

Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
a	5260	Ant1	5260	0	0	Within 5260-5320MHz	Pass
a	5280	Ant1	5280	0	0		Pass
a	5320	Ant1	5320.02	20000	3.76		Pass
n20	5260	Ant1	5259.98	-20000	-3.8		Pass
n20	5280	Ant1	5280	0	0		Pass
n20	5320	Ant1	5320	0	0		Pass
n40	5270	Ant1	5270	0	0	Within 5270-5310MHz	Pass
n40	5310	Ant1	5309.96	-40000	-7.53		Pass
ac20	5260	Ant1	5260	0	0	Within 5260-5320MHz	Pass
ac20	5280	Ant1	5279.98	-20000	-3.79		Pass
ac20	5320	Ant1	5319.98	-20000	-3.76		Pass
ac40	5270	Ant1	5270.04	40000	7.59	Within 5270-5310MHz	Pass
ac40	5310	Ant1	5310	0	0		Pass

Note: Test temperature: -20° to + 70°. At room temperature, the test results are the worst, only reflecting the test results graphs at room temperature.